The Official Gazette *of the*

United States Patent Office

Containing the Patents, Trade-Marks, and Designs

issued FEBRUARY 16, 1943

VOLUME 547 NUMBER 3

Published Weekly Under Authority of Congress

Department of Commerce, U. S. Patent Office

WASHINGTON, D. C.

For sale by the Superintendent of Documents, Washington, D. C. For prices see first page

Patents Nos. 2,310,917 to 2,311,621

THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 547—No. 3 TUESDAY, FEBRUARY 16, 1943 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of February 16, 1943	395
Notices of Cancellation	395
Notice—Attorney's Address	395
Rule 72	395
Adjudicated Patent	395
Disclaimers	395
Applications Under Examination	396
Decisions of the U. S. Courts—	
In re Sears, Roebuck & Company	397
In re Rice	399
Trade-Marks Published (102 Applications)	401
Trade-Mark Registrations Granted	414
Trade-Mark Registrations Renewed	422
Reissues	425
Patents Granted	427
Designs	590

February 16, 1943

Trade-Marks	189—No.	400,036 to No.	400,224, inclusive.
T. M. Renewals	65		
Reissues	7—No.	22,266 to No.	22,272, inclusive.
Patents	705—No.	2,310,917 to No.	2,311,621, inclusive.
Designs	57—No.	135,024 to No.	135,080, inclusive.
Total	1,023		

Notices of Cancellation

U. S. Patent Office, *Richmond, Va., Jan. 11, 1943.*

George Booskos, his assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by Riverbank Canning Company, Riverbank, Calif., to effect the cancellation of trade-mark registration of George Booskos, 2219 First Ave., New York, N. Y., No. 221,110, dated November 23, 1926, and the notice of such proceeding sent by registered mail to the said George Booskos at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Booskos, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., January 20, 1943.*

Chin Yuk Sun, his assigns or legal representatives take notice:

A petition for cancellation having been filed in this Office by James L. Younghusband, 30 W. Hubbard St., Chicago, Ill., to effect the cancellation of trade-mark registration of Chin Yuk Sun, 40 Bowery, New York, N. Y., No. 300,933, dated February 14, 1933, and the notice of such proceeding sent by registered mail to the said Chin Yuk Sun at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Chin Yuk Sun, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Rule 72

Rule 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the paper which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Notice—Attorney's Address

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Adjudicated Patent

(C. C. A. Ill.) Bellow patent, No. 2,219,974, for smoker's ash tray and other articles adapted to rest on chair arms or other supports, *Held* invalid. *Bellow v. Park Sherman Co.*, 131 F.(2d) 599.

Disclaimers

1,594,617.—*Rudolph Holman*, Chicago, Ill. Cup-Forming Machine with Stacking Attachment. Patent dated August 3, 1926. Disclaimer filed January 18, 1943, by the assignee, *Dixie-Vortex Company.*

Hereby enters this disclaimer to claims 1 and 2 of said Letters Patent.

1,959,978.—*Erwin O. Freund*, Chicago, Ill. Sausage, Artificial Casing Therefor, and the Production Thereof. Patent dated May 22, 1934. Disclaimer filed January 23, 1943, by the assignee, *The Visking Corporation.*

Hereby disclaims claims 1, 2, 3, and 5 of said patent.

Conditions of Applications Under Examination at Close of Business January 30, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,205; Trade-Mark Division, 870. Oldest new case, Mar. 6, 1942; oldest amended, Mar. 11, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Aug. 10	Sept. 21	388
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Aug. 21	Sept. 4	273
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Mar. 14	Apr. 1	1021
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Aug. 20	Sept. 11	398
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	June 10	June 2	536
6. GENIESSE, E. W., Carbon Chemistry (part)	May 1	May 2	1072
7. JARBOE, C. G., Optics, Photography	June 5	June 8	1009
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	July 13	July 17	679
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	July 28	July 21	674
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 4	Sept. 1	358
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Aug. 15	Aug. 17	318
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	June 24	June 27	653
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Sept. 29	Sept. 17	402
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	July 11	July 16	464
16. SPENCER, C. J., Telegraphy; Telephony	June 20	June 12	687
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 9	Mar. 28	707
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	June 13	June 15	596
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	May 25	May 8	685
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	July 10	July 6	444
21. THOMPSON, T. J., Textiles	Sept. 12	Sept. 23	323
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Apr. 28	Apr. 28	1650
23. BARROWS, B., Cash Registers; Calculators (part)	Aug. 11	July 4	114
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Aug. 18	Aug. 21	651
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	June 10	June 3	516
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 9	July 21	482
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	June 19	June 10	600
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	May 25	Apr. 18	527
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 2	Sept. 17	348
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 8	Oct. 9	328
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Aug. 6	Aug. 6	1294
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	July 30	July 29	656
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Sept. 11	Aug. 31	512
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Aug. 5	Aug. 18	306
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	July 16	July 9	748
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	July 18	July 13	441
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 11	Oct. 6	563
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	July 15	July 11	650
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Oct. 1	Aug. 26	262
40. DRUMMOND, E. J., Receptacles	Aug. 17	Aug. 18	501
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	July 25	July 16	443
42. MARANS, H., Electric Signaling	Aug. 1	Aug. 10	357
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Mar. 20	Mar. 11	998
44. HARVEY, L. P., Refrigeration	June 22	June 13	348
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	July 27	Aug. 15	713
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	May 28	May 28	490
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	July 2	July 14	959
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 28	Mar. 21	747
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 1	Aug. 8	547
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	June 30	June 30	1482
51. BACKUS, C. D., Radiant Energy	July 11	July 25	833
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 28	June 5	572
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Sept. 30	July 27	186
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	June 30	Aug. 4	442
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	May 15	Apr. 17	612
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	June 20	June 20	892
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 1	Aug. 29	325
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Sept. 29	Oct. 1	466
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Mar. 6	Mar. 16	1337
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	June 17	June 17	395
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	June 17	July 2	657
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	July 27	Aug. 27	378
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Apr. 23	May 2	1131
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	July 30	July 30	1185
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	July 3	July 10	595
Trade Marks: RICHMOND, F. A.	Dec. 30	Dec. 31	870
Designs: KALUPY, H. H.	†Jan. 5	†Jan. 18	279

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE SEARS, ROEBUCK & COMPANY

No. 4,644. Decided December 1, 1942

[— F.(2d) —]

1. TRADE-MARKS—COMPOSITE MARK—DOMINANT PORTION.
"In considering the registrability of a composite mark it is proper and necessary to determine its dominant feature."

2. SAME—SAME—SAME.
In a mark, for use on shoes, consisting of a fanciful representation of a man's bust, under which are written, in the style and size of handwriting similar to that used in the closing of a letter, the words "Thriftily your Bob Burnham," the notation "Bob Burnham" *Held* to be the dominant feature of the mark in the indication of origin of the shoes.

3. SAME—SAME—REGISTRABILITY UNDER TRADE-MARK ACT OF 1905.
"The applicant is not seeking to register a part of its own name, nor, so far as the record shows, the name of a person having any connection with it and, it may be added, the name is not presented in association with the portrait of any known individual. We think it clear that unless the name feature of the mark be held to meet the requirement as to distinctiveness its registration was properly denied."

4. SAME—NAMES—REGISTRABILITY UNDER TRADE-MARK ACT OF 1905.
"Bob Burnham" being the name of an individual, *Held* that to be registrable under the Trade-Mark Act of 1905 it must be found to be "written, printed, impressed, or woven in some particular or distinctive manner," and *Held* that it is not distinctively so displayed.

APPEAL from the Patent Office. Affirmed.

Mr. Frank H. Marks (*Mr. Ivan P. Tashof* of counsel) for Sears, Roebuck & Company.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.:*

This is an appeal from the decision of the Commissioner of Patents, speaking through the First Assistant Commissioner, affirming that of the Examiner of Trade-Marks denying appellant's application, filed under the Trade-Mark Act of February 20, 1905, for the registration of a mark for use on shoes. The mark may be briefly described as consisting of a fanciful representation of a man's bust, under which are written, in the style and size of handwriting similar to that used in the closing of a letter, the words "Thriftily yours Bob Burnham."

The tribunals of the Patent Office did not agree fully upon certain matters discussed in their respective decisions, but did agree as to the basic ground upon which the rejection was based, which was to the effect that the name "Bob Burnham" is the dominant feature of the mark and is not distinctively displayed. It was, therefore, held to fall within the inhibition prescribed in the second proviso of section 5(b) of the act, reading, in part, as follows:

> That no mark which consists merely in the name of an individual, firm, corporation, or association not written, printed, impressed, or woven in some particular or distinctive manner, or in association with the portrait of the individual * * * shall be registered under the terms of this act.

It is agreed that the portrait or drawing constituting a feature of the mark is fanciful; that is, it is not and does not purport to be the portrait of any particular individual. It is also agreed that Burnham is a common surname and that the written notation "Thriftily yours Bob Burnham" is not shown to have been written by, or to be the signature of any person whose name is Bob Burnham, the brief on behalf of appellant stating that "the name was not selected because it identified anyone in particular."

So, the case presents a situation wherein the applicant seeks to register in conjunction with a picture which is not a portrait of anyone connected with the applicant company—in fact, not a portrait of any individual—a name which, while a common name, is not the name of any person shown to be connected with the applicant company, the registration being sought under the Trade-Mark Act of February 20, 1905. (The Examiner indicated in this case that he would regard the mark entitled to registration under provisions of the act of March 19, 1920.)

It appears from the record that numerous registrations of marks of the general character of that here involved have been granted under the 1905 act by the tribunals of the Patent Office to various parties. A conspicuous example is registration No. 351,948 for shoes, registered November 16, 1937, in the name of the same company which is applying here. The mark there consists of a fanciful bust portrait (that is, it is not the portrait of any individual) and the written words "Sincerely yours Sandy Nevin" arranged quite similarly to that of the mark here involved, the name "Sandy Nevin," as we understand it, not identifying any particular individual. Various other registrations of the same general type were included in the record but need not be particularly described. Some of the registrations cited appear to have been granted recently—indeed some of them seem to have been granted during the pendency of the instant application and others subsequent to the Commissioner's decision (May 13, 1941) in this case. For example, appellant cites the decision of the First Assistant Commissioner, rendered October 14, 1942, in the case of *The Procter & Gamble Company* v. *Weiss Noodle Company*, 55 U. S. P. Q. 195, in which registration was granted of a mark described in the decision as consisting of

> "notation 'Ma Perkins,' displayed in reverse lettering upon a red scroll, in association with a picture of the head and face of an old lady wearing spectacles,"

the First Assistant Commissioner being of the opinion that the name was distinctively displayed.

On the other hand, the briefs before us cite decisions of the Commissioner of Patents, some of

recent dates, denying registrations wherein the descriptions indicate that the rejected marks were of the type of the mark here involved. So, it would seem that the Patent Office practice with regard to the registration of the class of marks described cannot be said to have been strictly uniform.

The decision of the Commissioner in the instant case states:

Counsel for applicant calls attention to a long list of registered marks, and marks published for registration, which he contends are equally objectionable. As to many of these marks I am constrained to agree with counsel. But while such errors and inconsistencies as those he points out are regrettable, they add nothing to the registrability of applicant's mark.

The practice which has been followed in the Patent Office with respect to marks of the type of that under consideration comprises the only authority which has been brought to our attention relative to the subject. No decision by any court was cited, nor have we found any by independent research, involving the registrability of a mark composed of a fanciful portrait associated with the name of an unidentified person. (The "name" provision of the act has been often before the courts, as hereinafter pointed out, but not with reference to marks like that at bar.) The decisions in the Patent Office, so far as we can determine, have been more or less arbitrary. That is to say they have turned largely upon the view of the particular tribunal passing upon them relative to whether, in the particular case under consideration at the time, the name was (in the words of the statute) "written, printed, impressed, or woven in some particular or distinctive manner." In some instances the tribunal has been of the opinion that the name was so treated while in others the tribunal has been of a different view.

[1] [2] [3] [4] We find nothing in the trade-mark registration act of February 20, 1905, which inhibits the registration of a mark consisting of a representation, or photograph, of the bust of a fanciful, or "imagined," person in association with the name of an individual not identified (although the name may be a common one) simply because of the per se type or character of such a mark. What recourse an individual bearing the name so used might have by way of opposition or cancellation proceedings in the Patent Office, or by a proceeding in equity instituted in the courts is not a matter of concern in the instant case, since this is a proceeding ex parte.

As we view it, the situation presented in the instant case is partly analogous to that which would arise in the case of a person seeking to register his own name as a technical trade-mark, and to a certain extent the same test should be applied.

There is, however, a distinction to be noted. The proviso to section 5(b) above quoted inhibits the registration of a mark consisting merely of the name of an individual unless written, printed, impressed, or woven in some particular or distinctive manner, or in association with a portrait of the individual, but the last proviso of the section (introduced into the act by amendment in 1911, 36 Stat. L. 918) reads

"That nothing herein shall prevent the registration of a trade-mark *otherwise registerable* because of its being the name of the *applicant* or a portion thereof." [Italics ours.]

In the case of *In re Nisley Shoe Co.*, 19 C. C. P. A. (Patents) 1211, 58 F.(2d) 426, 423 O. G. 4, upon which the First Assistant Commissioner relied in part in the instant case, the applicant was seeking to register the notation "Nisley's" as a trade-mark for shoes and hosiery, the notation being in the possessive form of the surname of the president of the applicant company. We there pointed out that there is a seeming conflict between the two provisos embraced in section 5(b) of the 1905 act, heretofore quoted, and construed them in the light of the legislative history, holding, in substance, that the latter proviso (which was not introduced into the act until 1911, 36 Stat. L. 918) was not intended to render registrable even the name of an applicant, unless the requirement as to distinctive display embraced in the earlier proviso was met.

We were there considering solely the right of an applicant company to register what, in effect, was a part of its own name as a technical trade-mark, and held that it might not do so because the arrangement of the name failed to meet the requirement for distinctiveness.

In the instant case the applicant is not seeking to register a part of its own name, nor, so far as the record shows, the name of a person having any connection with it and, it may be added, the name is not presented in association with the portrait of any known individual. We think it clear that unless the name feature of the mark be held to meet the requirement as to distinctiveness its registration was properly denied.

The contention of appellant's counsel to the effect that the mark should not be dissected and that when considered as a whole it does not "consist 'merely in the name of an individual'" has been carefully considered in connection with the authorities cited. It is true that the mark at issue in its entirety embraces more than the name "Bob Burnham" and that the courts have often stated the general rule that marks should not be dissected, but there is another well-settled rule which must be applied, viz., that in considering the registrability of a composite mark it is proper and necessary to determine its dominant feature. Strictly speaking, this is determined by analysis, rather than by "dissection," as is suggested in the brief of the Solicitor for the Patent Office before us in this case, wherein are cited numerous decisions of this court in which analyses have been made to determine which portion of a mark would be considered by purchasers as the dominant feature indicating origin.

A recent case in point is that of *Langendorf United Bakeries, Inc.*, v. *General Foods Corp.*, 29 C. C. P. A. (Patents) 831, 125 F.(2d) 159, 537 O. G. 3, wherein we quoted from our prior decision in the case of *Frankfort Distilleries, Inc.*, v. *Kasko Distillers Products Corporation*, 27 C. C. P. A. (Patents) 1189, 111 F.(2d) 481, 520 O. G. 535, as follows:

If the purchaser of trade-marked goods would be more likely to remember one part of a mark than another part as indicating origin of the goods, such word is the dominant part of the mark under the decisions above cited.

In the Nisley Shoe Co. case, supra, we said:

We are of the opinion that the proper construction of the words "particular or distinctive manner" in the proviso of section 5 referred to is that the word or words constituting the mark shall be written, printed, impressed, or woven in such a manner as to form a distinct impression upon the eye of the observer, to the extent that he will remember such particular or distinctive form and rely upon it, in part at least, in ascribing origin of the goods to which the mark is applied.

In the instant case we think it clear that the notation "Bob Burnham" is the dominant feature of the mark in the indication of origin of the shoes to which the mark is applied and since it is the name of an individual we are of opinion that to be registrable it must be found to be "written, printed, impressed, or woven in some particular or distinctive manner."

We are further of opinion that it is not distinctively displayed within the true meaning of the clause quoted. There is nothing unusual about the manner in which the notation "Thriftily yours Bob Burnham" is written or arranged.

It is true that it is handwritten but that is not uncommon and it should be borne in mind that the record does not show that it is the handwriting of any person named Burnham.

In the brief before us counsel for appellant directs attention to an expression used by us in our decision in the case of *The J. B. Williams Co.* v. *Ernest W. Williams*, 18 C. C. P. A. (Patents) 1133, 48 F.(2d) 398, 410 O. G. 8, intimating, but not holding, that the autographic forming of a name might overcome the general negative of the proviso in section 5(b), above quoted, and suggests that the instant case "furnishes an opportunity" for a definite ruling on the point. Since the signature involved in this case does not purport to be the autographic signature of any person by the name of Burnham, it is evident that any ruling in that respect would be obiter and we refrain from making one.

We deem it proper to say that in referring to the various marks of the type at issue here and the actions thereon by the tribunals of the Patent Office we have done so only for the purpose of showing what the practice has been. The right of registration in the instant case may not be determined by the actions had in those cases.

Numerous cases other than those above cited have been brought to our attention and examined during our consideration of the issue here but we find nothing in them requiring their review.

For the reasons stated, the decision appealed from is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE RICE

No. 4,646. Decided December 1, 1942

[— F.(2d) —]

1. PATENTABILITY—PRINTED MATTER.

The established principles that invention cannot rest alone in novel printing arrangement, although it may reside in some physical structures of printed matter *Held* equally applicable to method and article claims.

2. SAME—SAME.

Claims directed to the "art of writing sheet music" *Held* to embody subject matter not patentable under section 4886 R. S.

APPEAL from the Patent Office. Affirmed.

Messrs. Emery, Holcombe & Miller (*Mr. Charles F. Miller, Jr.*, of counsel) for Rice.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This appeal brings before us for review a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting, upon the grounds hereinafter stated, claims 17 to 29, inclusive, of appellant's application for a patent. No claims were allowed.

Claim 17 is illustrative of the subject matter of the claims before us and reads as follows:

17. The art of writing sheet music which comprises reproducing upon a paper sheet a plurality of spaced charts consisting of a pictorial representation of a portion of a piano keyboard, the top surfaces of the black and white keys affording fields for indicating indicia, and applying indicating indicia to selected keys of each chart to indicate the keys to be played on the count or measure represented by the respective charts.

The reference cited is: Dickson, 1,053,366, February 18, 1913.

Appellant's alleged invention is sufficiently described in the above quoted claim.

The Examiner rejected the claims upon three grounds, viz.,

1. That the claims are directed to subject matter not patentable under section 4886, R. S., (U. S. C. title 35, sec. 31.).

2. That the claims are not proper method claims.

3. That the claims lack invention over the disclosure of the Dickson patent.

The Board of Appeals in its decision specifically ruled only upon the third ground above stated, viz., the rejection of the claims on the Dickson patent; but it did recite all of the grounds of rejection by the Examiner, and, after stating that certain claims had been withdrawn by appellant, concluded its decision with the following:

* * * The remaining claims are rejected on the grounds given above and discussed by the Examiner. The decision of the Examiner is affirmed.

This general affirmance was a complete affirmance of all the grounds upon which the Examiner finally rejected the claims. *In re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 780, 433 O. G. 223.

In view of our conclusion with respect to the first ground of rejection above stated, it is unnecessary to discuss the other grounds, or further to refer to the Dickson patent, other than to say that it was issued in 1913; and, in view of the judicial decisions rendered since that time, we must assume such a patent would not now be granted by the Patent Office.

We are in accord with the view that the claims before us are directed to subject matter not patentable under section 4886, R. S., supra.

All of the claims before us are directed to the art of writing sheet music, which comprises reproducing upon a paper sheet certain information as an aid to beginners in learning to play the piano.

[1] It is well established in patent law that invention cannot rest alone in novel printing arrangement, although it may reside in some physical structures of printed matter. *In re Reeves*, 20 C. C. P. A. (Patents) 767, 62 F.(2d) 199, 428 O. G. 769; *In re Sterling*, 21 C. C. P. A. (Patents) 1134, 70 F.(2d) 910, 447 O. G. 999; *Conover* v. *Coe*, 69 App. D. C. 144, 493 O. G. 945.

It is true that the above cited cases did not involve method claims, but the principles therein declared are equally applicable to method and article claims.

The case of *In re McKee*, 20 C. C. P. A. (Patents) 1018, 64 F.(2d) 379, 433 O. G. 509, did embrace method as well as article claims. That case involved, among other things, the patentability of a method of marking meat. One ground of rejection of the claims by the Patent Office tribunals was that the marking of meat does not come within the purview of the patent statute.

In affirming this ground of rejection by the Patent Office we said:

> In oral argument and in brief counsel has urged that under the case of *Cincinnati Traction Company* v. *Pope*, 210 Fed. 443, his claims should be allowed. That case is quite a famous one and may be said to be the leading case in this field. The patent involved a railway ticket comprising a body portion and a coupon, the ticket bearing conventional indications showing that the body alone was good at one time of the day and that the body and the coupon were required for the other portion of the day. The court there held that the device of the patent clearly involved physical structure and that the claims were limited to such structure.
>
> We see nothing more in appellant's alleged invention than the arrangement of printed matter upon meat. We are not impressed with the contention that the Cincinnati Traction Company case, supra, is authority for sustaining appellant's contention. On the contrary, the case is easily distinguishable from the case at bar. There the material upon which the printing appeared had a novel form, which form served a new and useful purpose. In the case at bar, the form of the meat is not in any respect made to depend upon the printing arrangement.

[2] So in the case at bar we see nothing in appellant's alleged invention other than the arrangement of printed matter and other indicia upon a sheet of paper.

Appellant relies upon the case of *In re Sheffield*, 53 App. D. C. 109, 313 O. G. 458, wherein a decision of the Commissioner of Patents was reversed, which decision held that a method of visually indicating the structure and meaning of a sentence in the printing of books was unpatentable over two patents cited as prior art.

The court held that the said patents did not negative invention of the claims before it, and that the appellant there had made a substantial contribution to the art.

However, so far as appears from said case, the question here involved was not before the court and was not considered by it. The only question there considered was the patentability of the claims over the cited prior art.

Therefore that case has no bearing upon the question of whether the involved claims embody subject matter patentable under section 4886 R. S., supra.

It is our opinion that, under the many decisions of this and other courts relating to subject matter patentable under the patent laws, the claims before us were properly rejected upon the first ground hereinbefore stated.

The decision appealed from is affirmed.

Affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 16, 1943

[Vol. 547. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 453,486. Bell & Zoller Coal Company, Chicago, Ill. Filed June 5, 1942.

Super-V

FOR COAL.
Claims use since May 23, 1942.

Ser. No. 457,078. Ford Motor Company, Dearborn, Mich. Filed Nov. 27, 1942.

SOYLON

FOR SNYTHETIC FIBERS.
Claims use since Nov. 13, 1942.

CLASS 2

RECEPTACLES

Ser. No. 457,151. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed Dec. 1, 1942.

RESTEX

FOR TANKS MADE OF FABRIC AND RUBBER AND/OR SYNTHETIC RUBBERLIKE MATERIALS FOR STORAGE OF GASOLINE, OIL, WATER, AND OTHER LIQUIDS.
Claims use since Sept. 12, 1942.

Ser. No. 457,390. The Greif Bros. Cooperage Corporation, doing business as Seymour & Peck Co., Cleveland, Ohio, and Chicago, Ill. Filed Dec. 14, 1942.

For-Ply

No claim is made to the words "For-Ply" except as shown.
FOR WOODEN DRUMS TO CONTAIN LOOSE, SEMI-SOLID AND SOLID MATERIALS.
Claims use since Aug. 25, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 457,044. Nicholas W. Orloff, New York, N. Y. Filed Nov. 25, 1942.

The word "Orloff" as it appears in the drawing is the autographed signature of the applicant.
FOR SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAMS, SHAVING STICKS, SHAVING POWDER, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL; SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES; LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, WASHING TABLETS AND SHAMPOO SOAPS IN CAKE FORM.
Claims use since Nov. 10, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 443,665. Max Baskies, doing business as Maxim Chemical Works Ltd., Boston, Mass. Filed May 17, 1941.

ASCAP COMPOUND

No claim is made to the word "Compound."
FOR ANTI-PAIN TABLET.
Claims use since January, 1936.

Ser. No. 451,020. Walter Holland Reynolds, Takanini, New Zealand. Filed Feb. 16, 1942.

WALTO

FOR VETERINARY PREPARATION FOR THE PREVENTION OF MASTITIS.
Claims use since Dec. 6, 1940.

Ser. No. 453,046. WINNER MANUFACTURING CO. INC., Trenton, N. J. Filed May 15, 1942.

HYDROTUF

FOR SEMI-SOLID COATING MATERIAL NOT IN THE NATURE OF A PAINT FOR USE IN WATER-PROOFING POROUS BASE MATERIALS.
Claims use since May 1, 1942.

Ser. No. 454,259. J. LEON LASCOFF & SON, New York, N. Y. Filed July 16, 1942.

NEOTAR

FOR MIXTURE OF COLORLESS FRACTIONS OF CRUDE COAL TAR FOR USE AS AN INGREDIENT OF OINTMENTS AND LOTIONS FOR THE TREATMENT OF SKIN DISEASES.
Claims use since May 1, 1942.

Ser. No. 456,132. STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed Oct. 10, 1942.

GERM-TROL

Applicant disclaims "Germ" apart from the mark.
FOR GERMICIDES, DISINFECTANTS, AND DEODORIZERS.
Claims use since Oct. 2, 1942.

Ser. No. 456,348. HERBERT VAN STRAATEN, doing business as van Straaten Chemical Co., Chicago, Ill. Filed Oct. 22, 1942.

VANTROL

FOR METAL DEGREASING AND METAL WASHING COMPOUNDS, AND CHEMICAL COMPOUNDS USED FOR PROTECTIVE COATINGS AND RUST PREVENTIVE COATINGS FOR METAL AND OTHER SPECIAL METAL TREATMENT.
Claims use since Jan. 9, 1941.

Ser. No. 456,480. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Oct. 27, 1942.

RAIDER

FOR COSMETICS—NAMELY, BLACK-OUT CREAM OF THE TYPE USED BY COMMANDO TROOPS FOR THE BLACKING OUT OF THE FACE AND HANDS.
Claims use since Oct. 19, 1942.

Ser. No. 457,380. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill. Filed Dec. 14, 1942.

NALGISED

FOR TABLET HAVING ANALGESIC AND MILD HYPNOTIC PROPERTIES.
Claims use since Nov. 4, 1942.

Ser. No. 457,400. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

CEETANNA

FOR ANTISEPTIC TANNIC ACID JELLY.
Claims use since Nov. 19, 1942.

Ser. No. 457,460. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill. Filed Dec. 17, 1942.

VAGISERT

FOR VAGINAL SUPPOSITORY.
Claims use since Nov. 4, 1942.

Ser. No. 457,498. SIDNEY HENRY, New York, N. Y. Filed Dec. 18, 1942.

COLETTE

FOR PERFUME, TOILET WATER, AND LIPSTICK.
Claims use since Dec. 8, 1942.

Ser. No. 457,501. MCCORMICK & CO., INCORPORATED, Baltimore, Md. Filed Dec. 18, 1942.

BEE
BRAND

ROACH KILLER

The words "Brand," "Roach," and "Killer" are claimed only as shown.
FOR ROACH POISON.
Claims use since 1894.

Ser. No. 457,626. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Dec. 28, 1942.

ENTOCINE

FOR MEDICINAL RESPIRATORY VACCINE USED FOR PROTECTION AGAINST RESPIRATORY INFECTIONS.
Claims use since Nov. 16, 1942.

Ser. No. 457,627. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Dec. 28, 1942.

STERAPS

FOR PACKAGED STERILE DRUGS IN POWDER OR CRYSTALLINE FORM INTENDED FOR LOCAL APPLICATION ON WOUNDS AND INFECTED AREAS OF THE BODY.
Claims use since Nov. 16, 1942.

Ser. No. 457,679. THE HAMILTON LABORATORIES, INC., Hamilton, Ohio. Filed Dec. 31, 1942.

MERFENELOPE

FOR PACKAGED GERMICIDE FOR CONTROL OF PULP AND PAPER MILL SLIMES.
Claims use since Nov. 24, 1942.

Ser. No. 457,709. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed Jan. 1, 1943.

IPESANDRINE

FOR MEDICINAL PREPARATION RECOMMENDED FOR THE RELIEF OF COUGH AND DYSPNEA DURING COLDS AND AS AN EXPECTORANT.
Claims use since Nov. 30, 1942.

CLASS 7

CORDAGE

Ser. No. 449,152. PHILCO CORPORATION, Philadelphia, Pa. Filed Dec. 3, 1941.

PHILCO

FOR METAL DRIVE CORD—NAMELY, A METAL MULTISTRAND FLEXIBLE DRIVING ELEMENT; DIAL DRIVE CORD—NAMELY, A WAXED, OR OTHERWISE TREATED CORD FOR EFFECTING A HIGH FRICTION DRIVE WITH A PULLEY OR DRUM AFFIXED TO AN INSTRUMENT DIAL; AND CONTROL DRIVE CABLE—NAMELY, FLEXIBLE MOTION TRANSMITTING MEANS USED FOR CONTROL PURPOSES.
Claims use upon metal drive cord since 1928; and upon dial drive cord and control drive cable since 1930.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 449,746. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Dec. 24, 1941.

MASTICAL

FOR GYPSUM CEMENT COMPOSITIONS.
Claims use since October, 1940.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 455,073. HILL-SHAW COMPANY, Chicago, Ill. Filed Aug. 24, 1942.

"Speed-Stir"

FOR GLASS COFFEE BREWERS.
Claims use since July 3, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 456,015. DRIVER-HARRIS COMPANY, Harrison, N. J. Filed Oct. 7, 1942.

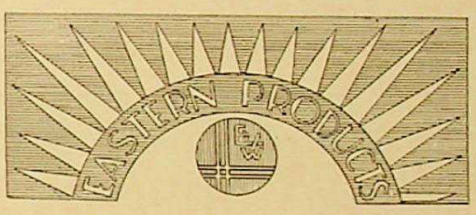
Chromax

FOR CASTINGS AND FORGINGS HIGHLY RESISTANT TO HEAT AND CORROSION, AND COMPOSED OF A METALLIC ALLOY CONTAINING CHROMIUM.
Claims use since May 21, 1927.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 453,636. EASTERN PAINT & VARNISH WORKS, Hawthorne, N. J. Filed June 13, 1942.



No claim is made to the words "Eastern" or "Products" apart from the mark.
FOR PAINTS, VARNISHES, AND PAINT ENAMELS IN READY-MIXED AND PASTE FORMS.
Claims use since 1932.

Ser. No. 455,131. MARY BUNDZIK, Johnstown, Pa. Filed Aug. 27, 1942.

No claim is made to the word "Polish" apart from the mark.
FOR CLEANING AND POLISHING PREPARATION FOR FURNITURE, RADIOS, AUTOMOBILES, AND PAINTED AND ENAMELED SURFACES.
Claims use since Mar. 10, 1942.

Ser. No. 456,825. INTERCHEMICAL CORPORATION, New York, N. Y. Filed Nov. 14, 1942.

HYFEROX

FOR PAINT PIGMENTS.
Claims use since Oct. 29, 1942.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 457,025. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Nov. 25, 1942.

Kensitas

FOR SMOKING AND CHEWING TOBACCO, CIGARETTES, CIGARS, AND SNUFF.
Claims use since Oct. 28, 1920.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 456,460. CURTISS-WRIGHT CORPORATION, New York and Buffalo, N. Y., Columbus, Ohio, and St Louis, Mo. Filed Oct. 27, 1942.

TOMAHAWK

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Oct. 20, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 449,997. DAVID A. MARCUS, doing business as Electronic Specialty Co., Los Angeles, Calif. Filed Jan. 5, 1942.

RANGER

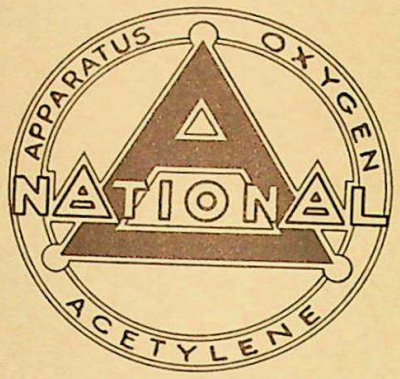
FOR RADIO APPARATUS CONSISTING OF AIRCRAFT RECEIVERS, COMBINATION RECEIVER-TRANSMITTERS, ULTRA-HIGH FREQUENCY TRANSMITTERS, ULTRA-HIGH FREQUENCY RECEIVERS, INTERPHONES, AND AIRCRAFT TRANSMITTERS.
Claims use since Oct. 20, 1940.

Ser. No. 456,910. THE TELEGRAPH CONSTRUCTION & MAINTENANCE COMPANY, LIMITED, London, England. Filed Nov. 18, 1942.

TELCOVIN

FOR INSULATED ELECTRIC CABLES.
Claims use since December, 1941.

Ser. No. 456,957. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Nov. 21, 1942.



No claim is made to the words "Oxygen," "Acetylene," and "Apparatus" apart from the mark.
FOR ALTERNATING CURRENT ELECTRIC WELDING APPARATUS AND DIRECT CURRENT WELDING APPARATUS.
Claims use since Sept. 1, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 457,426. THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Dec. 15, 1942.

RANGER

FOR PLAYING CARDS.
Claims use since Nov. 13, 1942.

Ser. No. 457,672. MILTON BRADLEY COMPANY, Springfield, Mass. Filed Dec. 31, 1943.

FIGHTING MARINES

FOR BOARD GAME PLAYED WITH MOVABLE PIECES.
Claims use since Nov. 20, 1942.

CLASS 23

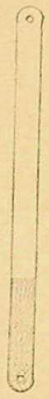
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 449,825. A. S. CAMPBELL CO., INC., Boston and East Boston, Mass. Filed Dec. 29, 1941.

NOJAX

FOR DOLLY TRUCKS FOR RECEIVING THE WHEEL OF A VEHICLE TO SUPPORT THE LATTER.
Claims use since June 2, 1941.

Ser. No. 455,430. The Forsberg Manufacturing Co., Bridgeport, Conn. Filed Sept. 9, 1942.



The trade-mark consists of a relatively narrow band of silver color about one end of the saw blade. No claim is made to the representation of a saw blade per se.

FOR HACK SAW BLADES AND POWER SAW BLADES.

Claims use since July 1, 1934.

Ser. No. 456,387. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed Oct. 24, 1942.

Speed Warden

FOR SPRING PRESSURE BRAKE FOR USE AS AN ATTACHMENT TO THE ACCELERATOR PEDAL OF AUTOMOTIVE VEHICLES TO SERVE AS A WARNING AGAINST EXCESSIVE SPEED.

Claims use since Oct. 5, 1942.

Ser. No. 456,784. X-Acto Crescent Products, Inc., New York, N. Y. Filed Nov. 12, 1942.

X-ACTO

FOR KNIVES FOR HOBBY, ARTS, AND CRAFTS.

Claims use since January, 1936.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 456,601. Jack & Heintz, Inc., Bedford, Ohio. Filed Nov. 2, 1942.

JAHCO

FOR AIRCRAFT AUTOMATIC PILOT HORIZON AND DIRECTIONAL GYRO CONTROL DEVICE.

Claims use since Sept. 30, 1942.

Ser. No. 456,602. Jack & Heintz, Inc., Bedford, Ohio. Filed Nov. 2, 1942.

FOR AIRCRAFT AUTOMATIC PILOT HORIZON AND DIRECTIONAL GYRO CONTROL DEVICE.

Claims use since Sept. 30, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 457,017. Jack Stern, doing business as Ovis Watch Co., New York, N. Y. Filed Nov. 24, 1942.

NOBILINE

FOR WATCHES.

Claims use since Oct. 27, 1942.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 456,909. Suckling Limited, Birmingham, England. Filed Nov. 18, 1942.

KINGSWAY

FOR ASH-TRAYS, ASPARAGUS-DISHES, ASPARAGUS-EATERS, ASPARAGUS-RACKS, ASPARAGUS-SERVERS, PUDDING BASINS AND BOWLS, BELLS, BELLOWS, BELT-CLASPS, LADIES' BELTS, BISCUIT-BOXES; BISCUIT, BUTTER, AND CHEESE DISHES; BONBON BASKETS, DISHES AND STANDS; BONNET-WHISKS, BOTTLE-COASTERS, BOTTLE-STOPPERS, BOTTLE-HOLDERS, BOTTLE-LABELS, BOTTLE-STANDS, BOWLS, BRANDY-WARMERS, BREAD-BASKETS, BREAD PLATTERS AND TRAYS, BRIDE-CAKE SAWS, BRIDGE-BOXES, BRIDGE TRUMP-INDICATORS, BRUSHES, BUTTER-BOATS, BUCKLES, BUTTON-HOOKS, BUTTONS, CAFÉ AU LAIT SETS AND POTS, CAKE-BASKETS, CALENDARS, CANDELABRAS, CANDLESTICKS, CANTEENS AND CABINETS, PLAYING-CARD BOXES, CARD-CASES, CAYENNE-PEPPER RECEPTACLES, CELERY STANDS, CENTER-PIECES, CHAFING-DISHES, COMMUNION-CHALICES, CHALLENGE-BOWLS, CHALLENGE-CUPS, CHALLENGE-SHIELDS, CHAMPAGNE-JUGS, CHATELAINES; CHEESE, BISCUIT AND BUTTER STANDS; CHEESE-SCOOPS, CHILDREN'S FOOD-PUSHERS AND SPOONS, CHILDREN'S RATTLES, CHUTNEY-SCOOPS, CHILDREN'S CUPS, CIGAR BOXES AND CASES, CIGAR-CUTTERS, CIGARETTE BOXES AND CASES, COFFEE-PERCOLATORS, COFFEE-POTS, COFFEE SETS, COMBS, COMMUNION SETS, CORKSCREWS, CRUETS, CRUMB-SCOOPS, CUPS AND SAUCERS, DECANTERS, DISH-COVERS, DISH-HEATERS, DISH-HEATING STANDS, DISH-STANDS, DISHES, DRESSING-BAG FITTINGS, EGG-BOILERS, EGG-CUPS, EGG-CUTTERS, EGG-FRAMES, ENTRÉE-DISHES, FERN-POTS, FISH DISHES AND PLATES, FISH-EATING KNIVES AND FORKS, FISH-SERVERS, FLASKS, FLOWER-BOWLS, FLOWER-VASES, FRUIT-BASKETS, FRUIT-STANDS, GAME-CARVERS, GLASS-HOLDERS, GOBLETS, GONGS, GRAPE-STANDS, GRAVY-BOATS, HAIR-BRUSHES, HAIR-PIN-BOXES, HAIRPIN-TUBES, HATPIN - STANDS, HAT - WHISKS, HOT - PLATE STANDS, ICE-PAILS, ICE-PICKS, INK-BOTTLES, INK-STANDS, JAM-DISHES, JAM-POTS, JUGS, KETTLES AND STANDS, KNIFE-RESTS, LABELS, LADIES' TOILET SETS, LADLES, LEMON-SQUEEZERS, LIQUEUR-BOTTLES, LIQUEUR SETS, LIQUEUR-FRAMES, LOBSTER-CRACKS, LOBSTER-PICKS, LOVING-CUPS, MANICURE SETS, MARMALADE-JARS, MARROW-SCOOPS, MATCH-BOXES, MATCH-STANDS, MEAT-COVERS, MEAT-DISHES, MENU-HOLDERS, MIRROR - MOUNTINGS, MONOGRAMS, MUFFIN-DISHES, MUFFINEERS, MUGS, MUSTARD-POTS, NAPKIN-RINGS, NIGHT-LIGHT HOLDERS; NUT-CRACKERS, NUT PICKS AND PEELERS; OIL AND VINEGAR FRAMES, COMMUNION-PATENS, PEPPER-MILLS, PEPPERS, PHOTO-FRAMES, PICKLE-FRAMES,

PIE-DISHES, PIE-SERVERS, PIN-BOXES, PINCUSHIONS, PLAQUES, PLATES, PLATE-CABINETS, PLATE-COVERS, POWDER-JARS, PRESENTATION-BOWLS, PRESENTATION-CASKETS, PRESENTATION-CUPS, PRESENTATION-SHIELDS, PRESENTATION-SPADES, PRIZE-CUPS, RAMEKIN-PANS, RING-STANDS, ROSE-BOWLS, SALAD-BOWLS, SALAD-SERVERS, SALT-CELLARS, SALT-BOTTLES, SALVERS, SANDWICH-BOXES, SARDINE - BOXES, SARDINE-SERVERS, SAUCE-BOATS, SAUCE-BOTTLE MOUNTS, SAUCE-FRAMES, SAUCE-TUREENS, SCENT-BOTTLES, SHAVING-SETS, SHOE-LIFTS, SKEWERS, SOUFFLET-DISHES, SOUP-BOWLS, SOUP-TUREENS, SOUP-TURNOVERS, COIN-PURSES, SPOONS AND FORKS, SPOON-WARMERS, STATUETTES; SUGAR BASINS, BASKETS AND BOWLS; SUGAR AND CREAM FRAMES, SUGAR-DREDGERS, SUGAR - SIFTERS, SUGAR - TONGS, SIPHON-STANDS, TANKARDS, TAPER-STICKS, TART-SERVERS, TEA-CADDIES, TEA-KETTLES, TEA POTS AND SETS, TEA-STRAINERS, TOAST-RACKS, TOBACCO-BOXES, TOILET SETS, TOILET WARE, TRAYS, TRINKET-BOXES, TROWELS, TUMBLER-HOLDERS, WAITERS, WATCH-STANDS, WINE-BOTTLE HOLDERS, WINE-COOLERS, WINE-FUNNELS, WINE-STRAINERS, ALL MADE OF STERLING SILVER OR PLATED ELECTRICALLY WITH PRECIOUS METALS.

Claims use since March, 1913.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 454,708. Yates-American Machine Company, Beloit, Wis. Filed Aug. 3, 1942.

Lipman
AUTOMATIC REFRIGERATION

Disclaimer is made to the words "Automatic Refrigeration" apart from the mark.

FOR REFRIGERATING APPARATUS—NAMELY, REFRIGERATORS, REFRIGERATING MACHINES AND PARTS THEREOF.

Claims use since Apr. 13, 1926.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 457,462. Continental Record Company, Inc., New York, N. Y. Filed Dec. 17, 1942.

CONTINENTAL

FOR PHONOGRAPH RECORDS.

Claims use since May 1, 1940.

Ser. No. 457,463. Continental Record Company, Inc., New York, N. Y. Filed Dec. 17, 1942.

WHITE EAGLE

FOR PHONOGRAPH RECORDS.

Claims use since December, 1941.

Ser. No. 457,703. Joseph M. Davis, doing business as Beacon Record Co., New York, N. Y. Filed Jan. 1, 1943.

BEACON

FOR PHONOGRAPH RECORDS.

Claims use since May 22, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 456,874. David Kahn, Inc., North Bergen, N. J. Filed Nov. 17, 1942.

ZENITH

FOR FOUNTAIN PENS, MECHANICAL PENCILS, COMBINATION FOUNTAIN PENS AND MECHANICAL PENCILS, FOUNTAIN PEN FEEDS, PEN POINTS, ERASERS FOR PENCILS, AND PENCIL LEADS.

Claims use since Nov. 11, 1942.

Ser. No. 457,005. Field-Ernst Envelope Co., San Francisco, Calif. Filed Nov. 24, 1942.

BANKVELOPE

FOR ENVELOPES.

Claims use since Dec. 27, 1939.

Ser. No. 457,111. Milton Bradley Company, Springfield, Mass. Filed Nov. 30, 1942.

Traffik

FOR CRAYONS.

Claims use since Oct. 27, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

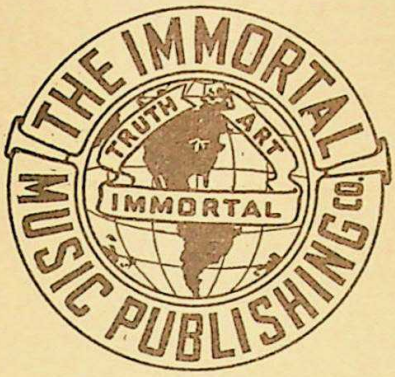
Ser. No. 450,302. James Buchanan, Middletown, Ohio. Filed Jan. 19, 1942.

GLOOM

FOR CARTOONS PUBLISHED FROM TIME TO TIME.

Claims use since Jan. 1, 1940.

Ser. No. 452,536. HAROLD LEONARD, doing business as The Immortal Music Publishing Co., Long Beach, N. Y. Filed Apr. 23, 1942.



FOR SHEET MUSIC.
Claims use since September, 1941.

Ser. No. 452,601. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Apr. 27, 1942.

METAL *Minutes*

No claim is made to the word "Metal" apart from the mark.

FOR PERIODICAL PUBLICATION DEVOTED TO THE INDUSTRIAL FURNACE TRADE AND CONTAINING NOTES, COMMENTS, AND NEWS RELATING TO THE PROCESSING OF METALS.

Claims use since Feb. 16, 1942.

Ser. No. 452,851. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed May 7, 1942.

FAIRY TALE PARADE

No claim is made to the words "Fairy Tale" apart from the mark.

FOR ILLUSTRATED STORY MAGAZINES PUBLISHED BI-MONTHLY.

Claims use since Mar. 17, 1942.

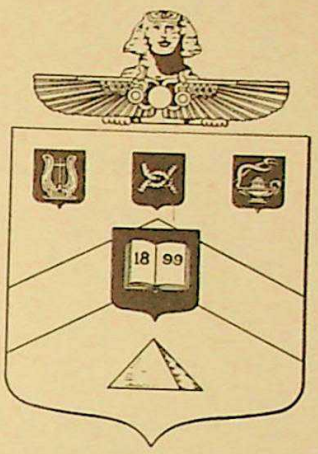
Ser. No. 456,791. DRIVER-HARRIS COMPANY, Harrison, N. J. Filed Nov. 13, 1942.

D - H
Alloy Craftsman

Applicant disclaims the word "Alloy" apart from the mark.

FOR HOUSE ORGAN.
Claims use since Mar. 11, 1940.

Ser. No. 457,414. DELTA SIGMA PHI FRATERNITY, Springfield, Ohio. Filed Dec. 15, 1942.



FOR QUARTERLY PUBLICATION.
Claims use since December, 1921.

Ser. No. 457,760. ERIC ERICSON, New York, N. Y. Filed Jan. 5, 1943.

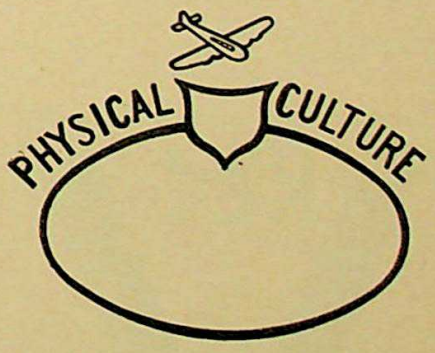
FOOTNOTES

FOR SERIES OF CARTOONS.
Claims use since Dec. 6, 1942.

CLASS 39

CLOTHING

Ser. No. 453,041. THE SELBY SHOE COMPANY, Portsmouth, Ohio. Filed May 15, 1942.



Applicant is the present owner of Reg. No. 97,334, "Physical Culture" for shoes, dated June 2, 1914, effected under the 10-years' use proviso of the act of 1905, and duly renewed.

FOR SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS.

Claims use since Apr. 15, 1942.

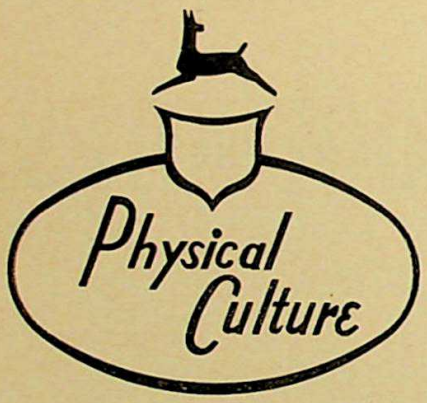
Ser. No. 453,042. The Selby Shoe Company, Portsmouth, Ohio. Filed May 15, 1942.

Applicant is the present owner of Reg. No. 97,334, "Physical Culture" for shoes, dated June 2, 1914, effected under the 10-years' use proviso of the act of 1905, and duly renewed. No claim is made to the expression "Deluxe Welts" apart from the mark.

FOR SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS.

Claims use since Apr. 15, 1942.

Ser. No. 453,043. The Selby Shoe Company, Portsmouth, Ohio. Filed May 15, 1942.

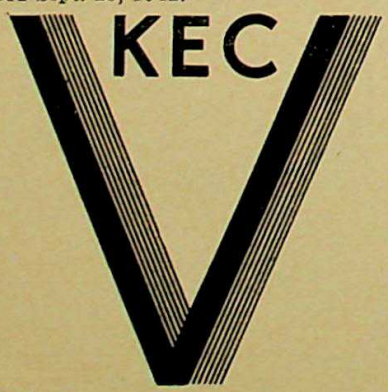


Applicant is the present owner of Reg. No. 97,334, "Physical Culture" for shoes, dated June 2, 1914, effected under the 10-years' use proviso of the act of 1905, and duly renewed.

FOR SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS.

Claims use since Apr. 15, 1942.

Ser. No. 455,776. Weco Products Company, Chicago Ill. Filed Sept. 25, 1942.



FOR HANDKERCHIEFS.

Claims use since Sept. 21, 1942.

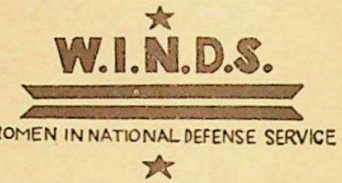
Ser. No. 456,743. Leeds Ltd. Coats, Inc., New York, N. Y. Filed Nov. 11, 1942.

DUVLAINE

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES MADE IN SUBSTANTIAL PART OF WOOL.

Claims use since May, 1940.

Ser. No. 456,763. Art-Mor Togs Inc., New York, N. Y. Filed Nov. 12, 1942.



The phrase "Women in National Defense Service" is disclaimed apart from the mark.

FOR LADIES' AND MISSES' COVERALLS, SLACK SUITS, CAPS, PLAYSUITS, OVERALLS, SKI-SUITS, SLACKS, BLOUSES, JACKETS, CULOTTES, BEACH ROBES, SUN SUITS, AND SHORTS.

Claims use since Nov. 2, 1942.

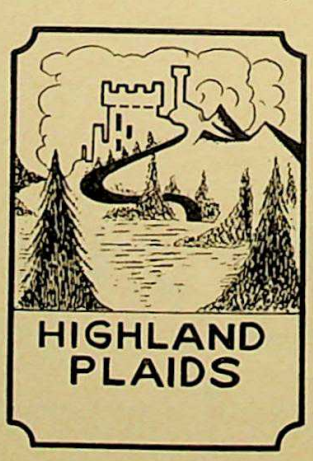
Ser. No. 456,793. Enterprise & Century Undergarment Co., Inc., New York, N. Y. Filed Nov. 13, 1942.

JOY-MAKER

FOR WOMEN'S UNDERWEAR, SLIPS AND NEGLIGEES.

Claims use since Oct. 6, 1942.

Ser. No. 457,269. Blue Mountain Textile Corporation, New York, N. Y. Filed Dec. 8, 1942.



No claim is made to the words "Highland Plaids" apart from the mark.

FOR MUFFLERS.

Claims use since June 2, 1924.

Ser. No. 457,313. GIVEN BROS. SHOE CO., El Paso, Tex Filed Dec. 10, 1942.

FOR MEN'S LEATHER AND FABRIC SHOES.
Claims use since Sept. 29, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 456,831. PLAK-KLOZ COMPANY, New York, N. Y. Filed Nov. 14, 1942.

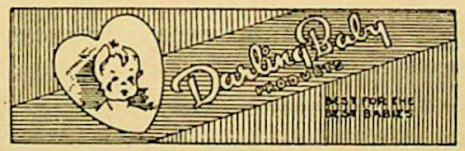
PLAK-KLOZ

The word "Kloz" is disclaimed except as shown.
FOR SEPARABLE FASTENERS OF THE BUTTON AND BUTTON HOLE TAPE TYPE.
Claims use since Nov. 11, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 451,629. A. S. LAZARUS & CO., INC., New York, N. Y. Filed Mar. 14, 1942.



The representation of the baby is fanciful. The words "Products" and "Best for the Best Babies" are disclaimed apart from the mark. The drawing is lined for blue and pink.
FOR TOWEL SETS, SHEETS AND PILLOW CASES, WASH CLOTHS, CRIB COVERS, STOCKINETTE SHEETS, MOSQUITO NETTING, QUILTED PADS, CRIB SHEETS, QUILTS AND QUILT SETS, BLANKETS, MATTRESS COVERS, QUILT COVERS, AND CHENILLE SPREADS.
Claims use since Jan. 1, 1920.

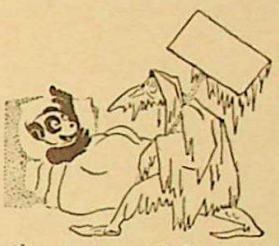
Ser. No. 454,379. THE SCHWARZENBACH HUBER CO., New York, N. Y. Filed July 21, 1942.

FAIRWEATHER

FOR PIECE GOODS CONSISTING IN WHOLE OR IN PART OF SILK, RAYON, WOOL, OR COTTON.
Claims use since Apr. 19, 1921.

Ser. No. 454,457. NASHUA MANUFACTURING COMPANY, Boston, Mass. Filed July 23, 1942.

PURREY by Nashua



Applicant is the owner of Reg. No. 87,647, dated July 30, 1912, (renewed), the subject of which is "Nashua" for blankets, effected under the 10-years' use proviso of the act of February 20, 1905.
FOR BLANKETS MADE OF COTTON, WOOL, OR SYNTHETIC FIBRE, AND ANY COMBINATION THEREOF.
Claims use since June 2, 1941.

Ser. No. 455,752. EMPIRE STATE MILLS, INC., New York, N. Y. Filed Sept. 25, 1942.

PANGORA

FOR KNITTED FABRICS IN THE PIECE OF BRUSHED RAYON AND COMBINED RAYON AND COTTON.
Claims use since Mar. 2, 1942.

Ser. No. 455,791. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed Sept. 26, 1942.

CAVELCREST

FOR WORSTED FABRICS, PRIMARILY FOR WOMEN'S OUTER WEAR, IN THE PIECE AND CUT LENGTHS.
Claims use since Sept. 3, 1942.

Ser. No. 455,792. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed Sept. 26, 1942.

CAVELPOINT

FOR BLENDED FABRICS WHICH ARE PREDOMINANTLY WOOL AND WHICH ARE PRIMARILY FOR WOMEN'S OUTER WEAR IN THE PIECE AND CUT LENGTHS.
Claims use since Aug. 14, 1942.

Ser. No. 455,793. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed Sept. 26, 1942.

CAVEL-SPUN

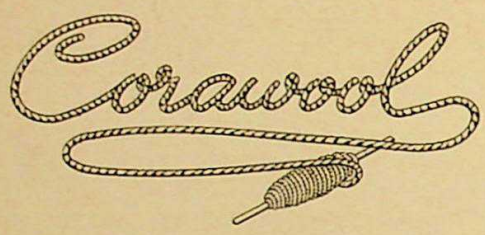
The word "Spun" is disclaimed apart from the mark.
FOR WORSTED FABRICS FOR WOMEN'S AND MEN'S SUITINGS IN THE PIECE AND CUT LENGTHS.
Claims use since Sept. 2, 1942.

Ser. No. 455,794. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed Sept. 26, 1942.

CAVEL-TWEED

The word "Tweed" is disclaimed apart from the mark.
FOR TWEED FABRICS FOR WOMEN'S AND MEN'S OUTER WEAR IN THE PIECE AND CUT LENGTHS.
Claims use since Sept. 3, 1942.

Ser. No. 455,881. AMOSKEAG-LAWRENCE MILLS, INC., Manchester, N. H. Filed Oct. 1, 1942.



FOR PIECE GOODS MADE OF A MIXTURE OF COTTON, RAYON, AND WOOL.
Claims use since Feb. 20, 1942.

Ser. No. 455,912. EXETER MANUFACTURING COMPANY, Exeter, N. H., and New York, N. Y. Filed Oct. 2, 1942. Under 10-year proviso.

EXETER

FOR COTTON PIECE GOODS.
Claims use since 1827.

Ser. No. 456,736. WM. ANDERSON TEXTILE MFG. CO. LTD., New York, N. Y. Filed Nov. 11, 1942.

Wm Anderson
"Piqué Amoureuse"

No claim is made to the word "Piqué" apart from the mark. The name Wm. Anderson is the facsimile signature of the founder of applicant's business.
FOR PRINTED COTTON PIECE GOODS, RAYON, SILK, AND ALL TEXTILE FABRIC PIECE GOODS.
Claims use since May, 1942.

Ser. No. 457,242. FASHION SILKS CORP., New York, N. Y. Filed Dec. 7, 1942.

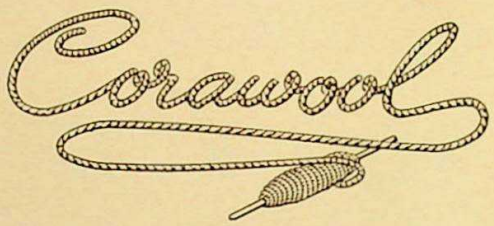
KOOL-PAKA

Applicant disclaims the notation "Kool" apart from the mark.
FOR SPUN RAYON CLOTH IN THE PIECE.
Claims use since Nov. 2, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 455,882. AMOSKEAG-LAWRENCE MILLS, INC., Manchester, N. H. Filed Oct. 1, 1942.



No claim is made to the representation of the spindle of yarn.
FOR YARNS MADE OF A MIXTURE OF COTTON, RAYON, AND WOOL.
Claims use since Feb. 20, 1942.

Ser. No. 457,454. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Dec. 16, 1942.

CASA-LAINE

FOR ART NEEDLEWORK YARNS MADE OF WOOL.
Claims use since Dec. 15, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 455,687. EMIL E. ZELLER, doing business as Sparkie Beverage Co., Tappahannock, Va. Filed Sept. 21, 1942.

FOR CARBONATED BEVERAGES.
Claims use since Sept. 14, 1938.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

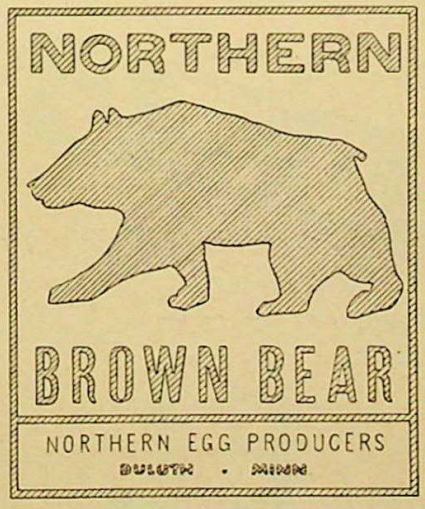
Ser. No. 445,999. THE METRO CHOCOLATE CO. INC., New York, N. Y. Filed Aug. 5, 1941.

No claim is made to the words "New York" apart from the mark.

FOR CANDIES.

Claims use since Apr. 15, 1919.

Ser. No. 451,605. NORTHERN COLD STORAGE AND WAREHOUSE CO., doing business as Northern Egg Producers, Duluth, Minn. Filed Mar. 13, 1942.

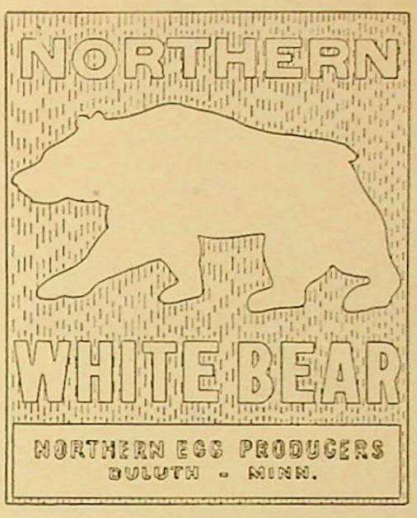


Applicant disclaims the words "Northern Egg Producers," "Northern" and "Duluth, Minn." apart from the mark.

FOR EGGS.

Claims use since July 1, 1938.

Ser. No. 451,606. NORTHERN COLD STORAGE AND WAREHOUSE CO., doing business as Northern Egg Producers, Duluth, Minn. Filed Mar. 13, 1942.



Applicant disclaims the words "Northern Egg Producers," "Northern," and "Duluth, Minn." apart from the mark.

FOR EGGS.

Claims use since July 1, 1938.

Ser. No. 453,467. PERRY FOOD PRODUCTS CO., Chicago, Ill. Filed June 4, 1942.

PEER

FOR SMOKED HAMS AND BACON.

Claims use since Oct. 16, 1941.

Ser. No. 455,410. BARDIN & JENSEN, Los Angeles, Calif. Filed Sept. 8, 1942.

SUGAR DADDY

The word "Sugar" is disclaimed apart from the mark.

FOR BAKER'S PRODUCTS—NAMELY, SUGAR WAFERS, FIG BARS, GRAHAM TOFFEES, CREAM SANDWICHES, PEANUT BUTTER BITES, AND BUTTER WAFER SANDWICHES.

Claims use since Jan. 1, 1942.

Ser. No. 456,566. QUALITY BAKERS OF AMERICA CO-OP., INC., New York, N. Y. Filed Oct. 31, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

The representation of a little girl is fanciful.
FOR BREAD.
Claims use since Sept. 14, 1942.

Ser. No. 456,750. PLANNED FOODS, INC., New York, N. Y. Filed Nov. 11, 1942.

EXTENDO

FOR FOOD PRODUCT, FOR ADDITION TO CHOPPED MEAT, FOWL, FISH, ETC., CONSISTING OF A COMBINATION OF WHOLE WHEAT, SKIM MILK, SOYA MEAL, CORN, OATS, ONION FLAKES, YEAST, A FLAVORING INGREDIENT, AND SALT.
Claims use since Nov. 2, 1942.

Ser. No. 456,928. PRIME PRODUCTS, INC., Tampa, Fla. Filed Nov. 19, 1942.

BRUCEET

FOR FRUIT AND VEGETABLE EXTRACTS AND JUICES IN SOLIDIFIED FORM, FOR FOOD PURPOSES.
Claims use since Sept. 28, 1942.

Ser. No. 457,202. E. F. KEMP, INC., Somerville, Mass. Filed Dec. 4, 1942.

KRISS KRINGLE

FOR EDIBLE NUTS.
Claims use since Oct. 9, 1942.

Ser. No. 457,216. THE BORDEN COMPANY, New York, N. Y. Filed Dec. 5, 1942.

D-Q

FOR FRESH MILK.
Claims use since Nov. 19, 1942.

Ser. No. 457,406. JAMES WADE WALLACE, doing business as Wallace Fruit Company, Edinburg, Tex. Filed Dec. 14, 1942.

ADVERTISER

FOR FRESH CITRUS FRUIT AND FRESH VEGETABLES.
Claims use since October, 1939.

Ser. No. 457,491. CAL-ROYAL CO., INC., New York, N. Y. Filed Dec. 18, 1942.

LAZY PEON

FOR FRESH AVACADO PEARS.
Claims use since Dec. 1, 1942.

Ser. No. 457,512. V. SABELLA & CO., INC., New York, N. Y. Filed Dec. 18, 1942.

LYDIA

FOR CANNED PEELED TOMATOES WITH TOMATO PASTE.
Claims use since Nov. 1, 1942.

Ser. No. 457,563. NESTLE'S MILK PRODUCTS, INC., New York, N. Y. Filed Dec. 22, 1942.

NESTUM

FOR PRECOOKED CEREAL FOOD.
Claims use since Dec. 12, 1942.

CLASS 47

WINES

Ser. No. 456,376. WESTERN WINE CORPORATION, doing business as Vintage Wines Co., Baltimore, Md. Filed Oct. 23, 1942.

V D·H·G

FOR WINES.
Claims use since Oct. 5, 1942.

Ser. No. 457,271. CALIFORNIA GROWERS WINERIES, Cutler, Calif. Filed Dec. 8, 1942.

EL REY

FOR WINES.
Claims use since Jan. 20, 1934.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 457,054. SHEWAN-JONES, INC., New York, N. Y. Filed Nov. 25, 1942.

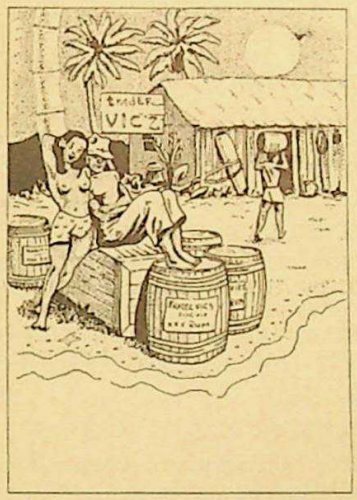
LEJON

FOR BRANDY.
Claims use since July 23, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 449,986. ESTHER BERGERON, Oakland, Calif. Filed Jan. 5, 1942.



FOR NOVELTIES AND CURIOS—NAMELY, STATUES, CORAL, NETS, NET FLOATS, DAGGERS, SWORDS, SHIP MODELS, SHARKS TEETH, TURTLE SHELLS, BRASS SHIELDS, ORIENTAL MASKS, AND BOWS AND ARROWS.
Claims use since Mar. 1, 1938.

Ser. No. 455,300. HORACE A. FULD, INC., New York, N. Y. Filed Sept. 3, 1942.

LUCKY PENNY
I AM YOURS IN A PINCH

The words "Penny" and "Pinch" are disclaimed apart from the mark.
FOR GLASS PINCH BOTTLE NOVELTIES USED AS TALISMANS.
Claims use since May, 1941.

Ser. No. 456,237. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio. Filed Oct. 16, 1942.

Dayco

FOR SYNTHETIC RUBBER-LIKE COMPOSITIONS IN SHEET, ROD, TUBE, OR PASTE FORM.
Claims use since February, 1935.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

FEBRUARY 16, 1943

400,036. BEVERAGE CONSISTING OF MILK SUPPLEMENTED WITH POWDERED TARO, COCOA, AND OTHER INGREDIENTS. THE GALEN COMPANY, INC., Berkeley, Calif.

Filed August 4, 1940. Serial No. 434,686. PUBLISHED OCTOBER 21, 1941. Class 46.

400,037. TRADING STAMPS. GREEN ARROW STAMP CO., East Cleveland, Ohio.

Filed September 16, 1940. Serial No. 436,013. PUBLISHED DECEMBER 8, 1942. Class 38.

400,038. COVER PAPER COMPRISED OF TRANSPARENT SHEETING LAMINATED TO PAPER. THE DOBECKMUN COMPANY, Cleveland, Ohio.

Filed December 7, 1940. Serial No. 438,614. PUBLISHED DECEMBER 8, 1942. Class 37.

400,039. PERIODICAL. HEARST MAGAZINES INC., New York, N. Y.

Filed January 25, 1941. Serial No. 439,966. PUBLISHED DECEMBER 1, 1942. Class 38.

400,040. MEDICINAL PREPARATION FOR COLDS AND ALSO THE FEVERISH CONDITIONS AND HEADACHES ASSOCIATED WITH THEM. HARBOURTS DRUG COMPANY, Trenton, N. J.

Filed February 19, 1941. Serial No. 440,781 PUBLISHED APRIL 7, 1942. Class 6.

400,041. MINERAL WOOL. UNITED STATES MINERAL WOOL COMPANY, Chicago, Ill.

Filed March 24, 1941. Serial No. 441,887. PUBLISHED SEPTEMBER 8, 1942. Class 12.

400,042. WORK GLOVES AND WORK MITTENS OF FABRIC, LEATHER, AND COMBINATIONS THEREOF. INDIANAPOLIS GLOVE CO., Indianapolis, Ind.

Filed April 1, 1941. Serial No. 442,171. PUBLISHED SEPTEMBER 16, 1941. Class 39.

400,043. POMPON YARN. VOGUE NEEDLECRAFT COMPANY, New York, N. Y., assignor to B. Kugel Co., Inc., New York, N. Y., a corporation of New York.

Filed April 15, 1941. Serial No. 442,613. PUBLISHED NOVEMBER 24, 1942. Class 43.

400,044. PHOTOGRAPHS AND PHOTOGRAPHIC PRINTS. JACK RABBIT COMPANY, Spartanburg, S. C.

Filed June 19, 1941. Serial No. 444,683. PUBLISHED JANUARY 6, 1942. Class 38.

400,045. MEN'S SUMMER WEIGHT SUITS AND COATS. FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va.

Filed August 4, 1941. Serial No. 445,932. PUBLISHED DECEMBER 8, 1942. Class 39.

400,046. STATIONARY MECHANICALLY OPERATED AIRPLANE AMUSEMENT DEVICES. LEE U. EYERLY, doing business as Eyerly Aircraft Company, Salem, Oreg.

Filed August 18, 1941. Serial No. 446,320. PUBLISHED DECEMBER 8, 1942. Class 22.

400,047. LAXATIVE PILLS. GUS H. FRENCH, doing business as French Laboratories, Minneapolis, Minn.

Filed August 23, 1941. Serial No. 446,493. PUBLISHED MAY 12, 1942. Class 6.

400,048. RAYON PIECE GOODS AND PIECE GOODS OF WHICH RAYON FORMS A SUBSTANTIAL CONTENT MIXED WITH OTHER FIBERS. EASTMAN KODAK COMPANY, Rochester, N. Y.

Filed September 4, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 446,777. PUBLISHED DECEMBER 8, 1942. Class 42.

400,049. RADIO RECEIVING APPARATUS; RADIO ANTENNA APPARATUS; COMBINATION RADIO RECEIVING AND ELECTRIC PHONOGRAPH APPARATUS, ETC. GALVIN MANUFACTURING CORPORATION, Chicago, Ill.

Filed September 13, 1941. Serial No. 447,019. PUBLISHED DECEMBER 8, 1942. Class 21.

400,050. COTTON YARN. ROYAL SOCIETY, INC., New York, N. Y.

Filed September 23, 1941. Serial No. 447,271. PUBLISHED DECEMBER 1, 1942. Class 43.

400,051. MEN'S RAINPROOF COATS OF GABARDINE CLOTH. LEVY BROS. & ADLER ROCHESTER, INC., Rochester, N. Y.

Filed September 24, 1941. Serial No. 447,291. PUBLISHED DECEMBER 16, 1941. Class 39.

400,052. TONIC FOOD BEVERAGE CONTAINING FERMENTED MILK, SYRUP OF FIGS, AND OTHER INGREDIENTS. SAMUEL S. LERNER, New York, N. Y.

Filed October 10, 1941. Serial No. 447,663. PUBLISHED DECEMBER 8, 1942. Class 46.

400,053. PREPARATION FOR POLISHING AND CLEANING AUTOMOBILES, FURNITURE, FINISHED PAINTED, VARNISHED AND ENAMELED SURFACES, WALLS, FLOORS, WINDOW SHADES AND VENETIAN BLINDS. GULCO CHEMICAL CO., INC., Gulfport, Miss.

Filed October 13, 1941. Serial No. 447,736. PUBLISHED DECEMBER 8, 1942. Class 16.

400,054. TEA. CONTINENTAL COFFEE COMPANY, INC., Chicago, Ill.

Filed October 18, 1941. Serial No. 447,906. PUBLISHED DECEMBER 8, 1942. Class 46.

400,055. SANDING OR POLISHING MACHINES. STERLING TOOL PRODUCTS COMPANY, Chicago, Ill.

Filed November 15, 1941. Serial No. 448,684. PUBLISHED APRIL 28, 1942. Class 23.

400,056. SIZING PREPARATION FOR USE IN THE TREATMENT OF PAPER AND PAPER PULP. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y.

Filed November 19, 1941. Serial No. 448,748. PUBLISHED DECEMBER 8, 1942. Class 6.

400,057. HAIR PREPARATION. APEM CORPORATION, Little Rock, Ark.

Filed December 3, 1941. Serial No. 449,114. PUBLISHED DECEMBER 8, 1942. Class 6.

400,058. SHAMPOO PREPARATION. APEM CORPORATION, Little Rock, Ark.

Filed December 16, 1941. Serial No. 449,511. PUBLISHED DECEMBER 8, 1942. Class 6.

400,059. GEARS, PINIONS, MIXER ARMS, MIXER ARM TIPS, LINER PLATES, AND PRESSURE PLATES FOR ASPHALT MIXERS, ETC. KENSINGTON STEEL COMPANY, Chicago, Ill.

Filed January 14, 1942. Serial No. 450,206. PUBLISHED DECEMBER 1, 1942. Class 23.

400,060. WATER REPELLENT AND WATERPROOF FABRICS—NAMELY, FABRICS HAVING A COATING OF VINYL ACETATE, PYROXYLIN, OR OTHER WATERPROOFING MATERIAL. SEA ISLAND MILLS, INC., New York, N. Y.

Filed February 14, 1942. Serial No. 450,978. PUBLISHED DECEMBER 8, 1942. Class 50.

400,061. OINTMENT FOR THE TREATMENT OF ATHLETE'S FOOT AND OTHER FOOT AILMENTS. ELMER W. LAWSON AND CHARLES MONROW, Turlock, Calif.
Filed April 1, 1942. Serial No. 452,074. PUBLISHED DECEMBER 1, 1942. Class 6.

400,062. RAYON PIECE GOODS AND PIECE GOODS OF WHICH RAYON FORMS A SUBSTANTIAL CONTENT MIXED WITH OTHER FIBERS. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed April 23, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 452,523. PUBLISHED DECEMBER 8, 1942. Class 42.

400,063. PAINTS, SOLD IN PASTE AND READY-MIXED FORMS, PAINT ENAMELS, VARNISHES, AND JAPAN DRIERS. W. P. FULLER & CO., San Francisco, Calif.
Filed May 4, 1942. Serial No. 452,771. PUBLISHED DECEMBER 1, 1942. Class 16.

400,064. SOUPS, SOUP PASTES, SOUP POWDER, SOUP TABLETS, AND SOUP FLAVOURINGS. BICKIEPEGS LIMITED, Welwyn Garden City, England.
Filed May 7, 1942. Serial No. 452,848. PUBLISHED AUGUST 18, 1942. Class 46.

400,065. ANTISEPTIC, ASTRINGENT, AND DEODORANT PREPARATIONS FOR USE ON THE GUMS. EDMUND I. BRANOWER, doing business as Branower Chemical Company, New York, N. Y.
Filed May 16, 1942. Serial No. 453,049. PUBLISHED DECEMBER 1, 1942. Class 6.

400,066. LAUNDRY BLUING. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa.
Filed May 16, 1942. Serial No. 453,066. PUBLISHED JULY 14, 1942. Class 6.

400,067. CARTONS MADE WHOLLY OR PARTLY OF PAPER FOR PACKAGING LIQUID AND SEMI-SOLID FOOD MATERIALS. SEALRIGHT CO., INC., Fulton, N. Y.
Filed May 18, 1942. Serial No. 453,089. PUBLISHED DECEMBER 8, 1942. Class 2.

400,068. MEN'S OUTER CLOTHING CONSISTING OF SUITS, COATS, VESTS, TROUSERS OR PANTS, TOPCOATS, AND OVERCOATS. CAMBRIDGE TAILORING COMPANY, Baltimore, Md.
Filed May 21, 1942. Serial No. 453,152. PUBLISHED DECEMBER 8, 1942. Class 39.

400,069. SPAGHETTI, VERMICELLI AND MACARONI, AND ALL VARIETIES THEREOF WHICH ARE REFERRED TO IN THE TRADE AS MACARONI PRODUCTS AND ALIMENTARY PASTE GOODS. WEST COAST MACARONI MFG. CO., INC., Oakland, Calif.
Filed May 28, 1942. Serial No. 453,349. PUBLISHED DECEMBER 8, 1942. Class 46.

400,070. ARTISTS' MATERIALS—NAMELY, ARTISTS' PAINTS, ARTISTS' WATER COLORS (EXCLUDING CALCIMINE WATER COLORS AND WATER COLORS USED IN HOUSE-PAINT WORK), AND ARTISTS' OIL COLORS FOR SCHOOL AND ARTISTS' USE. ART CRAYON CO., INC., Brooklyn, N. Y.
Filed May 29, 1942. Serial No. 453,356. PUBLISHED DECEMBER 8, 1942. Class 16.

400,071. TABLETS FOR THE RELIEF OF COLDS, HEADACHE, AND NEURALGIA. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo.
Filed June 18, 1942. Serial No. 453,736. PUBLISHED DECEMBER 1, 1942. Class 6.

400,072. ROTARY MARKING TOOLS WITH INK SUPPLY AND INK DISTRIBUTING MEANS INCLUDING MEANS FOR MARKING CODE INSIGNIA ON DEFENSE MATERIALS. WINN-BILLINGS CO., Los Angeles, Calif.
Filed June 19, 1942. Serial No. 453,766. PUBLISHED DECEMBER 8, 1942. Class 23.

400,073. MARKING DEVICES FOR IMPRESSING CHARACTERS IN HARD SURFACES. ACROMARK CORPORATION, Elizabeth, N. J.
Filed June 20, 1942. Serial No. 453,767. PUBLISHED DECEMBER 8, 1942. Class 23.

400,074. FILTER PAPERS, FILTER PULP, FILTER AND EXTRACTION THIMBLES, FILTER CUPS, AND FILTER PAPER SUPPORTS. CARL SCHLEICHER & SCHUELL COMPANY, New York, N. Y.
Filed June 24, 1942. Serial No. 453,850. PUBLISHED DECEMBER 8, 1942. Class 31.

400,075. MEN'S AND WOMEN'S CLOTHING—NAMELY, PANTS. LOUIS TABAK, Los Angeles, Calif.
Filed July 1, 1942. Serial No. 453,994. PUBLISHED DECEMBER 8, 1942. Class 39.

400,076. TOILET LID COVERS, BATH MATS, AND RUGS. MILTON NEWMAN, doing business as Quaker Maid Mills, Philadelphia, Pa.
Filed July 8, 1942. Serial No. 454,101. PUBLISHED DECEMBER 8, 1942. Class 42.

400,077. LIQUID MAKEUP FOR THE BODY, PARTICULARLY THE LEGS. BELLIN'S WONDERSTOEN CO., INC., New York, N. Y.
Filed July 9, 1942. Serial No. 454,110. PUBLISHED DECEMBER 1, 1942. Class 6.

400,078. FURNITURE—VIZ., BUFFETS, SIDEBOARDS, TABLES FOR DINING ROOM USE, SERVING TABLES, CREDENZA BOARDS, TILT TOP SERVERS, CHAIRS, CHINA CABINETS, COMMODE SERVERS, CORNER CABINETS, AND DROPLEAF TABLES. DREXEL FURNITURE COMPANY, Drexel, N. C.
Filed July 11, 1942. Serial No. 454,167. PUBLISHED DECEMBER 8, 1942. Class 32.

400,079. MAKE-UP PREPARATION. CAMPANA CORPORATION, Batavia, Ill.
Filed July 17, 1942. Serial No. 454,285. PUBLISHED DECEMBER 1, 1942. Class 6.

400,080. WOOD AND FABRIC PRESERVATIVE AND TERMITE OIL. R. S. GIBBS, doing business as Standard Wood Preserver Co., New Orleans, La.
Filed July 20, 1942. Serial No. 454,335. PUBLISHED DECEMBER 1, 1942. Class 6.

400,081. SMOKING TOBACCO. JOHN HUDSON MOORE, INC., New York, N. Y.
Filed July 21, 1942. Serial No. 454,373. PUBLISHED DECEMBER 15, 1942. Class 17.

400,082. SETS OF INSULATED CONTAINERS ADAPTED TO HOLD NURSING BOTTLES AND HEAT RETAINING NURSING BOTTLE HOLDERS. LAWRENCE A. LOCKWOOD, doing business as Lockwood Products, Chicago, Ill.
Filed July 22, 1942. Serial No. 454,424. PUBLISHED DECEMBER 8, 1942. Class 44.

400,083. COMBINATION DINING TRAY AND REMOVABLE DISH AND CUP MADE OF SYNTHETIC MATERIALS. LAWRENCE A. LOCKWOOD, doing business as Lockwood Products, Chicago, Ill.
Filed July 22, 1942. Serial No. 454,426. PUBLISHED DECEMBER 8, 1942. Class 2.

400,084. DIAMONDS AND PRECIOUS STONES. TRABERT & HOEFFER, INC., New York, N. Y.
Filed July 22, 1942. Serial No. 454,440. PUBLISHED SEPTEMBER 29, 1942. Class 28.

400,085. CHEMICAL PREPARATIONS — NAMELY, WETTING AGENTS, MORDANTS, SOFTENERS, WATERPROOFING AGENTS, MERCERIZING AGENTS, ETC. ALBI CHEMICAL CORPORATION, New York, N. Y.
Filed July 29, 1942. Serial No. 454,568. PUBLISHED DECEMBER 8, 1942. Class 6.

400,086. OIL DISPENSING TRAILERS. VIVIAN M. HARMAN, doing business as Harman Equipment Co., Los Angeles, Calif.
Filed July 31, 1942. Serial No. 454,634. PUBLISHED DECEMBER 8, 1942. Class 19.

400,087. DRILLING AND PUMPING EQUIPMENT FOR OIL WELLS. THE OIL COUNTRY SPECIALTIES MFG. CO., Coffeyville, Kans., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a corporation of West Virginia.
Filed August 3, 1942. Serial No. 454,696. PUBLISHED DECEMBER 8, 1942. Class 23.

400,088. STEEL DIES USED IN DROP FORGING AND ANALOGOUS MACHINES FOR FORGING OR STAMPING METAL PRODUCTS. A. FINKL & SONS COMPANY, Chicago, Ill.
Filed August 12, 1942. Serial No. 454,872. PUBLISHED DECEMBER 1, 1942. Class 23.

400,089. PIECE GOODS MADE OF LINEN, COTTON, WOOL, RAYON, AND NYLON. OSCAR HAYMAN, New York, N. Y.
Filed August 20, 1942. Serial No. 455,004. PUBLISHED DECEMBER 8, 1942. Class 42.

400,090. WORK HOLDERS USED FOR HOLDING A GANG OF WORK PIECES IN A MACHINE TOOL DURING GANG MACHINING OPERATIONS. JOHN T. OBECNY, Los Angeles, Calif.
Filed August 21, 1942. Serial No. 455,026. PUBLISHED DECEMBER 8, 1942. Class 23.

400,091. STAIR TREADS MADE FROM COMPOSITION MATERIAL. THE PERFECT MANUFACTURING CO., and doing business as So-Lo Works, Cincinnati, Ohio.
Filed August 21, 1942. Serial No. 455,029. PUBLISHED DECEMBER 8, 1942. Class 50.

400,092. BITTER STOMACHIC APPETIZER. EMILIO MICHELOTTI, M. D., doing business as Kinosan Laboratories, Brooklyn, N. Y.
Filed August 25, 1942. Serial No. 455,106. PUBLISHED DECEMBER 1, 1942. Class 6.

400,093. NARROW FABRIC WITH SLITS AND SLOTS THEREIN FOR USE IN PLEATING DRAPERIES AND CURTAINS. CONSOLIDATED TRIMMING CORPORATION, New York, N. Y.
Filed August 27, 1942. Serial No. 455,132. PUBLISHED DECEMBER 8, 1942. Class 40.

400,094. BIBLES. A. J. HOLMAN COMPANY, Philadelphia, Pa.
Filed August 27, 1942. Serial No. 455,141. PUBLISHED DECEMBER 1, 1942. Class 38.

400,095. WOOL, COTTON, RAYON, AND SILK PIECE GOODS AND COMBINATIONS THEREOF. RUBE P. HOFFMAN, Los Angeles, Calif.
Filed August 28, 1942. Serial No. 455,161. PUBLISHED DECEMBER 8, 1942. Class 42.

400,096. FILE FOLDERS, GUIDES—NAMELY, CARD GUIDES, ALPHABETICAL GUIDES, LETTER AND LEGAL SIZE PAPER GUIDES, AND METAL GUIDE STRIPS, AND TRANSFER CASES. AMBERG FILE AND INDEX COMPANY, Kankakee, Ill.
Filed August 29, 1942. Serial No. 455,169. PUBLISHED DECEMBER 8, 1942. Class 37.

400,097. NOVELTY FURNITURE—NAMELY, TABLES, CHAIRS, TELEPHONE RACKS, BOOK SHELVES, BOOK ENDS, WALL BRACKETS, DECORATIVE MIRRORS, SHADOW BOXES. MILTON L. STURM, doing business as Milton Sturm & Co., Chicago, Ill.
Filed August 31, 1942. Serial No. 455,213. PUBLISHED DECEMBER 8, 1942. Class 32.

400,098. VITAMIN CAPSULES CONTAINING VITAMIN D (IRRADIATED ERGOSTEROL) AND YEAST CONCENTRATE. NION CORPORATION, Los Angeles, Calif.
Filed September 1, 1942. Serial No. 455,239. PUBLISHED DECEMBER 1, 1942. Class 6.

400,099. CREAM FOR APPLICATION TO THE HANDS. VANGUARD SALES CORPORATION, New York, N. Y.
Filed September 2, 1942. Serial No. 455,286. PUBLISHED DECEMBER 1, 1942. Class 6.

400,100. ADHESIVE CEMENT FOR BONDING TILE, WOOD, GLASS, METAL, WALLBOARD, CONCRETE, CORK, LEATHER, LINOLEUM, PLASTICS, ETC. CHRISTY COMPANY, INC., doing business as Central Terrazzo & Tile Company, St. Louis, Mo.
Filed September 4, 1942. Serial No. 455,326. PUBLISHED DECEMBER 8, 1942. Class 5.

400,101. SOLVENT MATERIAL TO EXTRACT OIL FROM VEGETABLE MATTER. DETROIT REX PRODUCTS COMPANY, Detroit, Mich.
Filed September 4, 1942. Serial No. 455,327. PUBLISHED DECEMBER 8, 1942. Class 6.

400,102. RUGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed September 4, 1942. Serial No. 455,331. PUBLISHED DECEMBER 8, 1942. Class 42.

400,103. RUGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed September 4, 1942. Serial No. 455,333. PUBLISHED DECEMBER 8, 1942. Class 42.

400,104. LADIES' AND MISSES' SLIPS. STYLECRAFT LINGERIE, INC., New York, N. Y.
Filed September 4, 1942. Serial No. 455,353. PUBLISHED DECEMBER 8, 1942. Class 39.

400,105. FIBRE RUGS AND FLOOR MATS OF FIBRE. DELTOX RUG COMPANY, Oshkosh, Wis.
Filed September 5, 1942. Serial No. 455,366. PUBLISHED DECEMBER 8, 1942. Class 42.

400,106. FIBRE RUGS AND FLOOR MATS OF FIBRE. DELTOX RUG COMPANY, Oshkosh, Wis.
Filed September 5, 1942. Serial No. 455,367. PUBLISHED DECEMBER 8, 1942. Class 42.

400,107. SHORE CONNECTION BOXES INSTALLED ON A SHIP AND INTENDED TO BE USED WHILE THE SHIP IS IN PORT. HARRY W. FIEDLER, doing business as Air Conditioning Utilities Company, New York, N. Y.
Filed September 5, 1942. Serial No. 455,370. PUBLISHED DECEMBER 8, 1942. Class 21.

400,108. LIQUID MEDICINAL PREPARATION INDICATED IN DERMATITIS. THE G. F. HARVEY COMPANY, Saratoga Springs, N. Y.
Filed September 11, 1942. Serial No. 455,480. PUBLISHED DECEMBER 8, 1942. Class 6.

400,109. PNEUMATIC TIRES AND PNEUMATIC INNER TUBES. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill.
Filed September 11, 1942. Serial No. 455,484. PUBLISHED DECEMBER 8, 1942. Class 35.

400,110. CHEMICAL PREPARATION IN LIQUID FORM USED AS A WATER SOLUBLE FINISHING OIL BY TEXTILE FINISHERS WHEREVER WATER SOLUBLE OILS ARE REQUIRED TO PRODUCE SPECIFIC EFFECTS. STANDARD CHEMICAL PRODUCTS, INC., Hoboken, N. J.
Filed September 11, 1942. Serial No. 455,486. PUBLISHED DECEMBER 1, 1942. Class 6.

400,111. SLACKS, PLAYSUITS, DRESSES, SLACK SUITS, SKIRTS, JACKETS, AND SHORTS FOR WOMEN, MISSES, AND GIRLS. LOUIS TABAK, Los Angeles, Calif.
Filed September 14, 1942. Serial No. 455,522. PUBLISHED DECEMBER 1, 1942. Class 39.

400,112. PLANT BALLS. HENRY PHILLIPS, Barryton, Mich.
Filed September 15, 1942. Serial No. 455,541. PUBLISHED DECEMBER 8, 1942. Class 1.

400,113. ART NEEDLEWORK YARNS. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed September 15, 1942. Serial No. 455,546. PUBLISHED NOVEMBER 17, 1942. Class 43.

400,114. POSTING TRAYS, DESKS, FILE CABINETS, PORTABLE TRAYS, ADJUSTABLE STANDS FOR TRAYS AND CABINETS, AND DIVIDERS ADAPTED TO CONTAIN ONLY CARDS ARRANGED IN ECHELON. VISIBLE INDEX CORP., New York, N. Y.
Filed September 15, 1942. Serial No. 455,547. PUBLISHED DECEMBER 8, 1942. Class 32.

400,115. PIECE GOODS COMPOSED WHOLLY OR IN PART OF SILK, WOOL, HAIR, RAYON, COTTON, HEMP, FLAX, JUTE, ALPHA FIBER, ALOE FIBER, VEGETABLE FIBER, OR MIXTURES THEREOF. BIANCHINI FERIER, INC., New York, N. Y.
Filed September 17, 1942. Serial No. 455,584. PUBLISHED DECEMBER 8, 1942. Class 42.

400,116. HAT PINS MADE OF MATERIALS OTHER THAN PRECIOUS METAL. SCHEIN BROTHERS, INC., New York, N. Y.
Filed September 17, 1942. Serial No. 455,601. PUBLISHED DECEMBER 8, 1942. Class 40.

400,117. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, WOOL, AND COMBINATIONS THEREOF. SHIRLEY FABRICS CORPORATION, New York, N. Y.
Filed September 18, 1942. Serial No. 455,614. PUBLISHED NOVEMBER 24, 1942. Class 42.

400,118. CHEMICALLY TREATED COTTON YARNS. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed September 19, 1942. Serial No. 455,636. PUBLISHED NOVEMBER 17, 1942. Class 43.

400,119. VARIOUS OILS, CREAMS, AND LOTIONS APPLIED TO THE FACE, BODY OR SCALP. DERMETICS, INC., Seattle, Wash.
Filed September 21, 1942. Serial No. 455,649. PUBLISHED DECEMBER 8, 1942. Class 6.

400,120. COUNTERIRRITANT, RUBEFACIENT AND ANALGESIC OINTMENT. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,662. PUBLISHED DECEMBER 1, 1942. Class 6.

400,121. MOUTH WASH. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,663. PUBLISHED DECEMBER 1, 1942. Class 6.

400,122. TOOTHPASTE. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,664. PUBLISHED DECEMBER 1, 1942. Class 6.

400,123. HAIR DRESSING. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,665. PUBLISHED DECEMBER 1, 1942. Class 6.

400,124. ANTISEPTIC MOUTH WASH. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,666. PUBLISHED DECEMBER 1, 1942. Class 6.

400,125. BODY LOTION. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,668. PUBLISHED DECEMBER 1, 1942. Class 6.

400,126. PREPARATION FOR THE TREATMENT OF IRRITATIONS OF THE SKIN. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,670. PUBLISHED DECEMBER 1, 1942. Class 6.

400,127. PREPARATION FOR THE RELIEF OF PAIN. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,672. PUBLISHED DECEMBER 1, 1942. Class 6.

400,128. FISHING BAITS AND LURES. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed September 22, 1942. Serial No. 455,688. PUBLISHED DECEMBER 8, 1942. Class 22.

400,129. INDOOR QUOIT GAME. ORIGINALITIES, INC., New York, N. Y.
Filed October 26, 1942. Serial No. 456,429. PUBLISHED DECEMBER 8, 1942. Class 22.

400,130. ADHESIVE DEXTRINE. THE ARABOL MF'G CO., New York, N. Y.
Filed October 27, 1942. Serial No. 456,443. PUBLISHED DECEMBER 8, 1942. Class 5.

400,131. FISHING BAITS AND LURES. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed September 22, 1942. Serial No. 455,689. PUBLISHED DECEMBER 8, 1942. Class 22.

400,132. COTTON PIECE GOODS, WHITE, DYED, AND PRINTED. CONSOLIDATED TEXTILE CO., INC., New York, N. Y.
Filed September 22, 1942. Serial No. 455,722. PUBLISHED DECEMBER 8, 1942. Class 42.

400,133. WEARING APPAREL FOR BOYS AND GIRLS—NAMELY, JACKETS, RAINCOATS AND CAPS. BEN FLIGEL CO. INC., New York, N. Y.
Filed September 24, 1942. Serial No. 455,725. PUBLISHED DECEMBER 8, 1942. Class 39.

400,134. PILE FABRICS IN THE PIECE OF WOOL, MOHAIR, AND COMBINATIONS THEREOF. SECURITY MILLS, INC., Newton, Mass., and New York, N. Y.
Filed September 24, 1942. Serial No. 455,739. PUBLISHED NOVEMBER 24, 1942. Class 42.

400,135. TELEPHONES AND TELEPHONE SYSTEMS AND PARTS THEREOF. AMERICAN AUTOMATIC ELECTRIC SALES COMPANY, Chicago, Ill.
Filed September 25, 1942. Serial No. 455,741. PUBLISHED DECEMBER 8, 1942. Class 21.

400,136. FURNITURE AND WOODWORK POLISH. PAYSON MARSH, Inglewood, Calif.
Filed September 25, 1942. Serial No. 455,759. PUBLISHED DECEMBER 8, 1942. Class 16.

400,137. COMBINATION FOLDABLE DESKS AND MUSIC STANDS. H. & A. SELMER, INC., Elkhart, Ind.
Filed September 25, 1942. Serial No. 455,766. PUBLISHED DECEMBER 8, 1942. Class 36.

400,138. PINE DISINFECTANTS, INSECTICIDES, DEODORANT BLOCKS, AND PIPE AND BOWL CLEANERS. C. W. SCHWANK CORPORATION, Baltimore, Md.
Filed September 25, 1942. Serial No. 455,770. PUBLISHED DECEMBER 1, 1942. Class 6.

400,139. WHISKEY. TOM WALKER & COMPANY, Glenfield, Pa., assignor to Robert Gould Company, Cincinnati, Ohio, a firm composed of Robert Gould and Alvin A. Gould.
Filed September 25, 1942. Serial No. 455,774. PUBLISHED DECEMBER 1, 1942. Class 49.

400,140. WHISKEY. TOM WALKER & COMPANY, Glenfield, Pa., assignor to Robert Gould Company, Cincinnati, Ohio, a firm composed of Robert Gould and Alvin A. Gould.
Filed September 25, 1942. Serial No. 455,775. PUBLISHED DECEMBER 1, 1942. Class 49.

400,141. FILING CABINETS. ART STEEL SALES CORPORATION, New York, N. Y.
Filed September 26, 1942. Serial No. 455,778. PUBLISHED DECEMBER 8, 1942. Class 32.

400,142. FRUIT LIQUEURS. BOHEMIAN DISTRIBUTING COMPANY, also doing business as International Products Company, Los Angeles, Calif.
Filed September 26, 1942. Serial No. 455,782. PUBLISHED DECEMBER 8, 1942. Class 49.

400,143. VODKA. BOHEMIAN DISTRIBUTING COMPANY, Los Angeles, Calif.
Filed September 26, 1942. Serial No. 455,783. PUBLISHED DECEMBER 8, 1942. Class 49.

400,144. SPRAY DEODORANTS. CLYDE ROWELL, doing business as Rexclif Products Co., Portland, Oreg.
Filed September 26, 1942. Serial No. 455,805. PUBLISHED DECEMBER 1, 1942. Class 6.

400,145. GLASS TABLEWARE. ANCHOR HOCKING GLASS CORPORATION, Lancaster, Ohio.
Filed September 28, 1942. Serial No. 455,813. PUBLISHED DECEMBER 8, 1942. Class 33.

400,146. CANDIES. THE METRO CHOCOLATE CO. INC., Brooklyn, N. Y.
Filed September 28, 1942. Serial No. 455,825. PUBLISHED DECEMBER 8, 1942. Class 46.

400,147. PHARMACEUTICAL PREPARATION OF VITAMIN B COMPLEX IN THE FORM OF AN ELIXIR, CAPSULES, TABLETS AND SYRUP. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed September 29, 1942. Serial No. 455,849. PUBLISHED DECEMBER 1, 1942. Class 6.

400,148. WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. THE G. EDWIN SMITH SHOE COMPANY, Columbus, Ohio.
Filed September 29, 1942. Serial No. 455,853. PUBLISHED DECEMBER 8, 1942. Class 39.

400,149. PERFUMES, COLOGNES, FACE POWDERS AND LIPSTICKS. EXCITEMENT, INCORPORATED, Chicago, Ill.
Filed September 30, 1942. Serial No. 455,863. PUBLISHED DECEMBER 1, 1942. Class 6.

400,150. LADIES' AND MEN'S HANDKERCHIEFS AND SCARFS. FRANSHAW, INC., New York, N. Y.
Filed September 30, 1942. Serial No. 455,865. PUBLISHED DECEMBER 8, 1942. Class 39.

400,151. WOMEN'S AND MISSES' HATS. JOHN FREDERICS, INC., New York, N. Y.
Filed September 30, 1942. Serial No. 455,866. PUBLISHED DECEMBER 8, 1942. Class 39.

400,152. CANNED CORN. REEDSBURG FOODS CORPORATION, Reedsburg, Wis.
Filed September 30, 1942. Serial No. 455,873. PUBLISHED DECEMBER 8, 1942. Class 46.

400,153. CYLINDRICAL COIL SPRING MOTORS FOR MODEL AIRPLANES. ROKWELL INDUSTRIES, INC., St. Louis, Mo.
Filed September 30, 1942. Serial No. 455,874. PUBLISHED DECEMBER 8, 1942. Class 22.

400,154. BABY OIL. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed October 1, 1942. Serial No. 455,887. PUBLISHED DECEMBER 8, 1942. Class 6.

400,155. RADIO EQUIPMENT SERVING FOR GIVING A VISUAL INDICATION OF THE FREQUENCY SPECTRUM. PANORAMIC RADIO CORPORATION, New York, N. Y.
Filed October 1, 1942. Serial No. 455,890. PUBLISHED DECEMBER 8, 1942. Class 26.

400,156. HAIR RINSING SOLUTIONS. AMAZIA PRODUCTS, Buffalo, N. Y.
Filed October 2, 1942. Serial No. 455,898. PUBLISHED DECEMBER 8, 1942. Class 6.

400,157. COLOGNE PREPARATION USED AS A SHAVING LOTION AND RUB DOWN. BROOKS BROTHERS, New York, N. Y.
Filed October 2, 1942. Serial No. 455,906. PUBLISHED DECEMBER 8, 1942. Class 6.

400,158. THUMB-SUCKING PREVENTATIVE DEVICES IN THE NATURE OF A SLEEVE. FREDERICK W. CORDES, New York, N. Y.
Filed October 2, 1942. Serial No. 455,907. PUBLISHED DECEMBER 8, 1942. Class 44.

400,159. GAME BOARDS. THE HORN-SHAFER COMPANY, Baltimore, Md.
Filed October 2, 1942. Serial No. 455,917. PUBLISHED DECEMBER 8, 1942. Class 22.

400,160. SALT AND PEPPER SERVERS OF SYNTHETIC RESIN. EDWIN J. OSTERBAUER, doing business as The Oster-Bauer Shop, Rockford, Ill.
Filed October 2, 1942. Serial No. 455,928. PUBLISHED DECEMBER 8, 1942. Class 2.

400,161. DRY, PASTE, AND READY-MIXED PAINTS, PAINT ENAMELS, AND VARNISHES. VITA-VAR CORPORATION, Newark, N. J.
Filed October 2, 1942. Serial No. 455,936. PUBLISHED DECEMBER 8, 1942. Class 16.

400,162. VITAMIN TABLETS. VITAMINS PLUS INCORPORATED, New York, N. Y.
Filed October 2, 1942. Serial No. 455,937. PUBLISHED DECEMBER 1, 1942. Class 6.

400,163. VITAMIN TABLETS. VITAMINS PLUS INCORPORATED, New York, N. Y.
Filed October 2, 1942. Serial No. 455,938. PUBLISHED DECEMBER 1, 1942. Class 6.

400,164. FOUNDRY SUPPLIES, SPECIFICALLY, CORE WASH; MUDDING COMPOUND; PATTERN COATING MATERIAL; FORMULA COMPOUND AS A FOUNDRY SAND HOT STRENGTH INGREDIENT; AND A FILLER INCLUDING PLUMBAGO AND A SYNTHETIC BINDER. POLLARD OIL PRODUCTS COMPANY, Milwaukee, Wis.
Filed October 2, 1942. Serial No. 455,941. PUBLISHED DECEMBER 8, 1942. Class 1.

400,165. WOMEN'S AND GIRLS' SWEATERS. RENART SPORTSWEAR CORP., New York, N. Y.
Filed October 3, 1942. Serial No. 455,956. PUBLISHED DECEMBER 8, 1942. Class 39.

400,166. PIECE GOODS OF COTTON, RAYON, AND SILK, AND/OR MIXTURES THEREOF. FOREMAN FABRICS, INC., New York, N. Y.
Filed October 5, 1942. Serial No. 455,974. PUBLISHED DECEMBER 8, 1942. Class 42.

400,167. PIECE GOODS OF COTTON, RAYON, AND SILK AND/OR MIXTURES THEREOF. FOREMAN FABRICS, INC., New York, N. Y.
Filed October 5, 1942. Serial No. 455,976. PUBLISHED DECEMBER 8, 1942. Class 42.

400,168. PERFUME STICKS. RIC PRODUCTS INC., Philadelphia, Pa.
Filed October 5, 1942. Serial No. 455,987. PUBLISHED DECEMBER 8, 1942. Class 6.

400,169. TAPIOCA STARCH FOR MANUFACTURING PURPOSES. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed October 6, 1942. Serial No. 455,998. PUBLISHED DECEMBER 1, 1942. Class 6.

400,170. LIQUID CHEMICAL PRODUCT HAVING FOOD VALUE AND PREPARED BY THE AQUEOUS EXTRACTION OF THE EMBRYO OF WHEAT, OATS, BARLEY, AND RYE. SUNSET LABORATORIES, Glendale, Calif.
Filed October 6, 1942. Serial No. 456,007. PUBLISHED DECEMBER 1, 1942. Class 6.

400,171. FOUNTAIN PENS AND MECHANICAL PENCILS. EVERSHARP, INC., Chicago, Ill.
Filed October 7, 1942. Serial No. 456,016. PUBLISHED DECEMBER 8, 1942. Class 37.

400,172. HAND LUGGAGE—NAMELY, SUIT CASES. LIDO LUGGAGE CO., INC., New York, N. Y.
Filed October 7, 1942. Serial No. 456,020. PUBLISHED DECEMBER 8, 1942. Class 3.

400,173. DIBENZOTHIAZYL DISULFIDE USED AS A VULCANIZATION ACCELERATOR IN THE CURING OF RUBBER ARTICLES. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed October 7, 1942. Serial No. 456,023. PUBLISHED DECEMBER 8, 1942. Class 6.

400,174. MONEY BELTS. NEW YORK MERCHANDISE CO., INC., New York, N. Y.
Filed October 7, 1942. Serial No. 456,026. PUBLISHED DECEMBER 8, 1942. Class 3.

400,175. CAUSTIC SODA, CAUSTIC POTASH, CARBONATE OF POTASH, BLEACHING POWDER, ETC. Niagara Alkali Company, Niagara Falls, N. Y.
Filed October 7, 1942. Serial No. 456,028. PUBLISHED DECEMBER 1, 1942. Class 6.

400,176. THREAD AND YARN OF ARTIFICIAL ORIGIN. North American Rayon Corporation, New York, N. Y.
Filed October 7, 1942. Serial No. 456,029. PUBLISHED DECEMBER 1, 1942. Class 43.

400,177. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,034. PUBLISHED DECEMBER 8, 1942. Class 42.

400,178. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,035. PUBLISHED DECEMBER 8, 1942. Class 42.

400,179. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,036. PUBLISHED DECEMBER 8, 1942. Class 42.

400,180. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,038. PUBLISHED DECEMBER 8, 1942. Class 42.

400,181. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,039. PUBLISHED DECEMBER 8, 1942. Class 42.

400,182. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,040. PUBLISHED DECEMBER 8, 1942. Class 42.

400,183. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,043. PUBLISHED DECEMBER 8, 1942. Class 42.

400,184. FABRICS IN THE PIECE MADE OF RAYON. Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,046. PUBLISHED DECEMBER 8, 1942. Class 42.

400,185. FABRICS IN THE PIECE MADE OF RAYON Pondel Fabrics, Inc., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,048. PUBLISHED DECEMBER 8, 1942. Class 42.

400,186. ARTIFICIAL TEETH. Universal Dental Company, Philadelphia, Pa.
Filed October 7, 1942. Serial No. 456,060. PUBLISHED DECEMBER 8, 1942. Class 44.

400,187. WOOLEN AND WORSTED FABRICS IN THE PIECE. Philip Shlansky & Bro., Inc., New York, N. Y.
Filed October 8, 1942. Serial No. 456,085. PUBLISHED DECEMBER 8, 1942. Class 42.

400,188. HAND AGRICULTURAL IMPLEMENTS AND HAND TOOLS—NAMELY, HEDGE SHEARS, GRASS SHEARS, PRUNING SHEARS, SHOVELS, SPADES, SCOOPS, FORKS, HOES, RAKES, POST HOLE DIGGERS AND WEED CUTTERS. The American Fork & Hoe Company, Cleveland, Ohio.
Filed October 9, 1942. Serial No. 456,089. PUBLISHED DECEMBER 8, 1942. Class 23.

400,189. INKING RIBBONS AND CARBON PAPER. Royal Typewriter Company, Inc., New York, N. Y.
Filed October 9, 1942. Serial No. 456,109. PUBLISHED DECEMBER 8, 1942. Class 11.

400,190. STUFFED ANIMAL TOYS AND OUTFITS CONTAINING FABRIC, TRIMMING, STUFFING, THREAD, NEEDLES, AND PATTERN FOR MAKING STUFFED ANIMAL TOYS. Heirloom Needlework Guild, Inc., New York, N. Y.
Filed October 10, 1942. Serial No. 456,121. PUBLISHED DECEMBER 8, 1942. Class 22.

400,191. AIRCRAFT PROPELLER PROTRACTORS. Guardian Electric Manufacturing Co., Chicago, Ill.
Filed October 12, 1942. Serial No. 456,144. PUBLISHED DECEMBER 8, 1942. Class 26.

400,192. HOSIERY. Wm. G. Leininger Knitting Co., Inc., Mohnton, Pa.
Filed October 12, 1942. Serial No. 456,151. PUBLISHED DECEMBER 8, 1942. Class 39.

400,193. ARTICLES PUBLISHED IN A CONTINUING SERIES AND APPEARING MONTHLY IN A TRADE MAGAZINE. The Bramson Publishing Company, Detroit, Mich.
Filed October 14, 1942. Serial No. 456,174. PUBLISHED DECEMBER 8, 1942. Class 38.

400,194. PERFUME AND COLOGNE. Doleith, Inc., Chicago, Ill.
Filed October 14, 1942. Serial No. 456,181. PUBLISHED DECEMBER 8, 1942. Class 6.

400,195. NEWSPAPER OR MAGAZINE SECTION OR DEPARTMENT. American Weekly, Inc., New York, N. Y.
Filed October 15, 1942. Serial No. 456,210. PUBLISHED DECEMBER 8, 1942. Class 38.

400,196. NEWSPAPER OR MAGAZINE SECTION OR DEPARTMENT. American Weekly, Inc., New York, N. Y.
Filed October 15, 1942. Serial No. 456,211. PUBLISHED DECEMBER 8, 1942. Class 38.

400,197. SANITARY NAPKINS. Gamble Stores, Incorporated, Minneapolis, Minn.
Filed October 15, 1942. Serial No. 456,213. PUBLISHED DECEMBER 8, 1942. Class 44.

400,198. LINIMENT FOR RELIEF OF PAIN, LAMENESS, AND SORENESS. O. J. May, Sutton, Nebr.
Filed October 17, 1942. Serial No. 456,260. PUBLISHED DECEMBER 8, 1942. Class 6.

400,199. COMIC STRIP OR PANEL PUBLISHED FROM TIME TO TIME. The Associated Press, New York, N. Y.
Filed October 20, 1942. Serial No. 456,282. PUBLISHED DECEMBER 8, 1942. Class 38.

400,200. TYPEWRITERS. Remington Rand Inc., Buffalo, N. Y.
Filed October 21, 1942. Serial No. 456,325. PUBLISHED DECEMBER 8, 1942. Class 23.

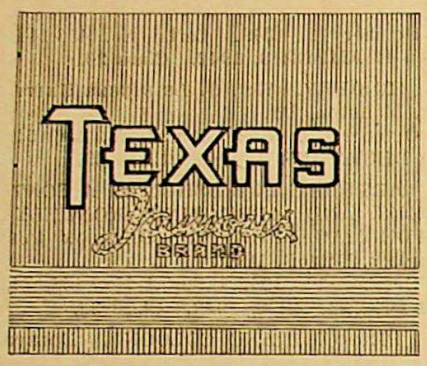
400,201. PAINTS USED AS PROTECTIVE COATINGS, MARINE PAINTS OF ALL KINDS, COPPER BOTTOM PAINTS, ANTICORROSIVE AND ANTIFOULING PAINTS AS USED FOR INSTANCE FOR SHIP BOTTOMS AND OTHER METAL AND WOODEN SURFACES. C. A. Woolsey Paint & Color Co., Inc., New York, N. Y.
Filed October 22, 1942. Serial No. 456,355. PUBLISHED DECEMBER 8, 1942. Class 16.

400,202. MACHINES FOR EMULSIFYING BUTTER FATS, MILK SOLIDS, AND WATER. United Dairy Equipment Company, West Chester, Pa.
Filed October 28, 1942. Serial No. 456,500. PUBLISHED DECEMBER 15, 1942. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THRIFT PACKING COMPANY, Dallas, Tex. Filed Jan. 23, 1941. Serial No. 439,911.



FOR CANNED VEGETABLES.
Claims use since Jan. 10, 1935.

400,204. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUIS MAGNASCO & CIA. LTDA. MANTEQUERIA MODELO SOCIEDAD ANON., Buenos Aires, Argentina. Filed May 24, 1941. Serial No. 443,888.

CHUBUT

FOR BUTTER AND CHEESE.
Claims use since July, 1940.

400,205. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERNSTEIN BROS., Los Angeles, Calif. Filed Oct. 17, 1941. Serial No. 447,863.

California
AUTHENTICS

FOR PIECE GOODS OF SILK, WOOL, LINEN, AND RAYON.
Claims use since Aug. 1, 1941.

400,206. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. GHIRARDELLI CO., San Francisco, Calif. Filed Nov. 28, 1941. Serial No. 449,008.

Double-Quick

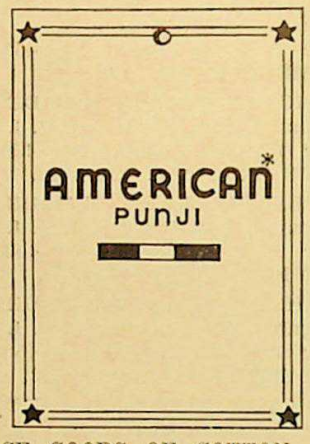
FOR CHOCOLATE POWDER PREPARATION FOR MAKING FOOD BEVERAGES AND FOR OTHER FOOD USES.
Claims use since Oct. 24, 1941.

400,207. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ALFRED E. DRAKE, Manhattan Beach, Calif. Filed Nov. 29, 1941. Serial No. 449,042.

TALK-A-LETTER

FOR PHONOGRAPH RECORDS.
Claims use since Oct. 1, 1941.

400,208. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HEGO FABRICS, INC., New York, N. Y. Filed Dec. 19, 1941. Serial No. 449,607.



FOR PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF.
Claims use since July 15, 1941.

400,209. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ARMSTRONG CORK COMPANY, Lancaster, Pa. Filed Dec. 20, 1941. Serial No. 449,636.

OVALE

FOR NURSING BOTTLES.
Claims use since Jan. 1, 1912.

400,210. (CLASS 32. FURNITURE AND UPHOLSTERY.) ALMA S. HAENSEL, doing business as Woodfashions, Milwaukee, Wis. Filed Dec. 22, 1941. Serial No. 449,686.

WOODFASHIONS

FOR HOUSEHOLD PARTITION SCREENS.
Claims use since Dec. 2, 1941.

400,211. (CLASS 15. OILS AND GREASES.) SULFLO, INC., Elizabeth, N. J. Filed Jan. 9, 1942. Serial No. 450,121.

MACHINE-KUT

FOR METAL CUTTING LUBRICATING COMPOUND.
Claims use since Aug. 22, 1940.

400,212. (CLASS 37. PAPER AND STATIONERY.) EASTERN TABLET CORPORATION, Albany, N. Y. Filed Feb. 7, 1942. Serial No. 450,830.

USABLE

★★★

FOR PORTFOLIOS MADE OF PAPER.
Claims use since Oct. 22, 1941.

400,213. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKE PLACID PACKING COMPANY, Lake Placid, Fla. Filed Mar. 18, 1942. Serial No. 451,720.

LAKE PLACID

FOR FRESH ORANGES, GRAPEFRUIT, AND TANGERINES.
Claims use since 1931.

400,214. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) M. E. HULSE, doing business as Hulse Import Co., San Francisco, Calif. Filed Apr. 8, 1942. Serial No. 452,220.

Kelly's

PRODUCT OF JAMAICA

JAMAICA RUMS LTD.

HULSE IMPORT CO.

FOR RUM.
Claims use since 1937.

400,215. (CLASS 27. HOROLOGICAL INSTRUMENTS.) CRAWFORD WATCH CO., New York, N. Y. Filed July 20, 1942. Serial No. 454,330.

BEAUTY Crawford ACCURACY
WATCH
CASED AND TIMED IN U.S.A.

FOR WATCHES.
Claims use since June 30, 1939.

400,216. (CLASS 27. HOROLOGICAL INSTRUMENTS.) KINGSTON WATCH COMPANY, New York, N. Y. Filed July 20, 1942. Serial No. 454,341.

KINGSTON

BEAUTY - ACCURACY

CASED AND TIMED IN U.S.A.

FOR WATCHES.
Claims use since Dec. 15, 1939.

400,217. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CONSOLIDATED TEXTILE CO., INC., New York, N. Y. Filed Sept. 24, 1942. Serial No. 455,718.

TUB-AN-WEAR

FOR COTTON PIECE GOODS, WHITE, DYED, AND PRINTED.
Claims use since Aug. 21, 1936.

400,218. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CONSOLIDATED TEXTILE CO., INC., New York, N. Y. Filed Sept. 24, 1942. Serial No. 455,720.

KRINKLE KOOL

FOR COTTON PIECE GOODS, WHITE, DYED, AND PRINTED.
Claims use since Sept. 7, 1937.

400,219. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CONSOLIDATED TEXTILE CO., INC., New York, N. Y. Filed Sept. 24, 1942. Serial No. 455,721.

Crinkle-Chine

FOR COTTON PIECE GOODS, WHITE, DYED, AND PRINTED.
Claims use since May 23, 1941.

400,220. (CLASS 38. PRINTS AND PUBLICATIONS.) DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 10, 1942. Serial No. 456,727.

POCKET
CROSSWORD
PUZZLES

Applicant is the owner of Reg. No. 325,823, registered July 2, 1935.
FOR A MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Nov. 7, 1941.

400,221. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed Nov. 23, 1942. Serial No. 456,977.

Fist Striker

FOR COIN-CONTROLLED AMUSEMENT APPARATUS.
Claims use since Oct. 15, 1941.

400,222. (CLASS 38. PRINTS AND PUBLICATIONS.) SONG LYRICS, INC., New York, N. Y. Filed Nov. 23, 1942. Serial No. 456,991.

400
SONGS
TO REMEMBER

FOR AN ILLUSTRATED PUBLICATION CONTAINING THE WORDS OF POPULAR SONGS PUBLISHED USUALLY EACH MONTH.
Claims use since Feb. 3, 1939.

400,223. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) The Frank L. Wight Distilling Company, Loreley, Md. Filed Dec. 3, 1942. Serial No. 457,195.

Frank L. Wight's

FOR WHISKEY.
Claims use since Nov. 7, 1940.

400,224. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) Lee Rubber and Tire Corporation, Youngstown, Ohio. Filed Dec. 4, 1942. Serial No. 457,205.

SHOCK ABSORBER

FOR CONVEYOR AND ELEVATOR BELTING.
Claims use since Apr. 21, 1941.

TRADE-MARK REGISTRATIONS RENEWED

22,335. **"JENKINS" AND DRAWING.** VALVES AND STEAM-PACKING SUPPLIES. Registered January 10, 1893. Jenkins Bros., Boston, Mass., New York, N. Y., and Chicago, Ill. Re-renewed January 10, 1943, to Jenkins Bros., New York, N. Y., and Bridgeport, Conn., a corporation of New Jersey, assignee.

22,382. **PLANET.** WATCH CASES. Registered January 31, 1893. Crescent Watch-Case Company, Newark, N. J. Re-renewed January 31, 1943, to The Riverside Metal Company, Riverside, N. J., a corporation of New Jersey, assignee by mesne assignments.

22,771. **"D. C. L." AND DRAWING.** WHISKY. Registered April 11, 1893. The Distillers Company, Limited. Re-renewed April 11, 1943, to The Distillers Agency, Ltd., Edinburgh, Scotland, a limited liability company of Great Britain, assignee.

23,025. **"PHŪL-NĀNĀ" AND DRAWING.** PERFUMERY AND PERFUMED SOAP. Registered May 16, 1893. John Lipscomb Grossmith. Re-renewed May 16, 1943, to J. Grossmith & Son, Limited, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee.

23,254. **"QUEEN" AND DRAWING.** PRESERVES, JELLIES, FRUIT-BUTTERS, AND MINCE-MEAT. Registered June 27, 1893. Van Lill Preserving Company. Re-renewed June 27, 1943, to S. J. Van Lill Co., Baltimore, Maryland, a corporation of Maryland, successor.

158,014. **POROTINE.** CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR. Registered August 22, 1922. Martin Sons and Company Limited, Lindley, Huddersfield, England, a corporation of Great Britain. Renewed August 22, 1942.

160,279. **"BELCANO" AND DRAWING.** FACIAL PACK PASTES. Registered October 17, 1922. Mary E. Rowden, doing business as Mme. Leo Products Co., Seattle, Wash. Renewed October 17, 1942, to Mary E. Rowden, Jersey City, N. J.

162,092. **"KELLOGG'S" AND DRAWING.** GRAPE JUICE, GINGERALE, SARSAPARILLA, ROOT BEER, AND SODA. Registered December 5, 1922. H. Kellogg & Sons. Renewed December 5, 1942, to William B. Mackey, doing business as H. Kellogg & Sons, Philadelphia, Pa., successor.

162,324. **MUSICAL COURIER.** MUSICAL MAGAZINE PUBLISHED WEEKLY. Registered December 12, 1922. Musical Courier Company, Inc. Renewed December 12, 1942, to Music Periodicals Corporation, New York, N. Y., a corporation of New York, successor.

163,021. **SHINGLETTE.** MINERAL-SURFACED ROLL ROOFING. Registered January 2, 1923. The Barrett Company. Renewed January 2, 1943, to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York, assignee.

163,077. **DIAMOND.** CERTAIN DESCRIBED ADHESIVE TIRE-REPAIR MATERIALS. Registered January 2, 1923. The B. F. Goodrich Company, New York, N. Y., a corporation of New York. Renewed January 2, 1943.

163,189. **TYSMOL.** PREPARATION FOR NEURITIS, SCIATICA, NEURALGIA, RHEUMATISM AND ANALOGOUS DISEASES. Registered January 2, 1923. Tysmol Co. Renewed January 2, 1943, to J. Baalmann Manufacturing Chemist, San Francisco, Calif., a copartnership.

163,395. **HIGHLAND.** PORK AND BEEF PRODUCTS—NAMELY, HAM, BACON, CORNED BEEF, AND COOKED SHOULDER. Registered January 9, 1923. George Schluderberg, trading as Wm. Schluderberg & Son, Highlandtown and Baltimore, Md. Renewed January 9, 1943, to The William Schluderberg-T. J. Kurdle Co., Baltimore, Md., a corporation of Maryland, assignee.

163,596. **REDIPAKT.** CAKES, WAFERS, CRACKERS, AND BISCUITS. Registered January 23, 1923. Loose Wiles Biscuit Company, New York, N. Y. Renewed January 23, 1943, to Loose-Wiles Biscuit Company, Long Island City, N. Y., a corporation of New York.

164,014. **PARKDALE.** CERTAIN NAMED RECEPTACLES. Registered February 6, 1923. Wm. E. Hooper & Sons Co., Woodberry, Md. Renewed February 6, 1943, to Wm. E. Hooper & Sons Co., Baltimore, Md., a corporation of Maryland.

164,478. **FRESHIES.** CERTAIN NAMED TOILET ARTICLE. Registered February 20, 1923. Katherine M. Mackenzie. Renewed February 20, 1943, to The Freshie Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

164,748. **PKCO.** HOSIERY. Registered February 27, 1923. The Powell Knitting Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 27, 1943.

165,004. **CORNELL.** HOSIERY. Registered February 27, 1923. The Powell Knitting Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed February 27, 1943.

165,125. **SNOWFLAKE.** EGGS. Registered March 6, 1923. Swift and Company, Chicago, Ill., a corporation of Illinois. Renewed March 6, 1943.

165,321. **SENTRY.** BOND PAPER FOR WRITING, LEDGER, AND PRINTING PURPOSES. Registered March 6, 1923. Lee Paper Company, Vicksburg, Mich., a corporation of Michigan. Renewed March 6, 1943.

165,781. **"CARAMEL NUT" AND DRAWING.** NUT CARAMELS. Registered March 20, 1923. Perley G. Gerrish. Renewed March 20, 1943, to The Squirrel Brand Co., Cambridge, Mass., a corporation of Massachusetts, assignee.

166,061. **PARKDALE.** COTTON-DUCK PAPER FELTS, OIL-PRESS CLOTH, CIDER-PRESS CLOTH, COTTON CLOTHS, COTTON TWILLS, FILTER-BLANKET CLOTH, ETC. Registered March 27, 1923. Wm. E. Hooper & Sons Co., Baltimore, Md., a corporation of Maryland. Renewed March 27, 1943.

166,155. **MOTORINE.** LUBRICATING OILS AND GREASES. Registered March 27, 1923. THE CONTINENTAL OIL COMPANY, Denver, Colo. Renewed March 27, 1943, to Continental Oil Company, Ponca City, Okla., a corporation of Delaware, assignee by mesne assignments.

166,436. **"TMC" AND DRAWING.** CERTAIN NAMED AUTOMOBILE BODY HARDWARE. Registered April 3, 1923. TERNSTEDT MANUFACTURING COMPANY. Renewed April 3, 1943, to General Motors Corporation, Detroit, Mich., a corporation of Delaware, assignee.

166,588. **OLD HOME PLATE.** SILVER-PLATED FLATWARE CONSISTING OF SPOONS, FORKS, LADLES, AND THE LIKE. Registered April 10, 1923. INTERNATIONAL SILVER COMPANY, Meriden, Conn., a corporation of New Jersey. Renewed April 10, 1943.

166,630. **SUNBEAM.** HOSIERY. Registered April 10, 1923. CHAS. CHIPMAN'S SONS CO. INC., New York, N. Y., a corporation of New York. Renewed April 10, 1943.

166,687. **"THREE SEASONS" AND DRAWING.** KNITTED FABRIC UNDERWEAR FOR MEN AND BOYS. Registered April 10, 1923. STANDARD KNITTING MILLS. Renewed April 10, 1943, to Standard Knitting Mills, Inc., Knoxville, Tenn., a corporation of Tennessee, successor.

166,691. **"NATION-WIDE" AND DRAWING.** CHILDREN'S READY-TO-WEAR CLOTHING—NAMELY, OVERALLS, COMBINATION SUITS, MADE OF KHAKI DRILL, DENIM, AND STIFEL DRILL MATERIALS. Registered April 10, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed April 10, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

166,709. **THE WEATHER-MAN.** KNITTED UNDERWEAR FOR MEN AND BOYS. Registered April 10, 1923. STANDARD KNITTING MILLS. Renewed April 10, 1943, to Standard Knitting Mills, Inc., Knoxville, Tenn., a corporation of Tennessee, successor.

166,728. **VANITISILK.** UNDERWEAR, NIGHTGOWNS, PYJAMAS, AND BATHING SUITS. Registered April 10, 1923. VANITY FAIR SILK MILLS. Renewed April 10, 1943, to Vanity Fair Silk Mills, Inc., Reading Pa., a corporation of Pennsylvania, by change of name.

166,808. **MIMEOGRAPH.** DUPLICATING MACHINES AND PARTS THEREOF. Registered April 17, 1923. A. B. DICK COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 17, 1943.

167,214. **"TMC" AND DRAWING.** CERTAIN NAMED AUTOMOBILE BODY HARDWARE. Registered April 24, 1923. TERNSTEDT MANUFACTURING COMPANY. Renewed April 24, 1943, to General Motors Corporation, Detroit, Mich., a corporation of Delaware, assignee.

167,217. **"TMC" AND DRAWING.** CERTAIN NAMED AUTOMOBILE BODY HARDWARE. Registered April 24, 1923. TERNSTEDT MANUFACTURING COMPANY. Renewed April 24, 1943, to General Motors Corporation, Detroit, Mich., a corporation of Delaware, assignee.

167,593. **ATLANTIC CITY EVENING UNION.** TITLE OF ITS DAILY PUBLICATION. Registered May 1, 1923. PRESS-UNION PUBLISHING COMPANY, Atlantic City, N. J., a corporation of New Jersey. Renewed May 1, 1943.

167,627. **BIG GUN.** WHEAT FLOUR. Registered May 1, 1923. THE NORTHWESTERN CONSOLIDATED MILLING COMPANY, Minneapolis, Minn. Renewed May 1, 1943, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

167,729. **"THE HUMBER" AND DRAWING.** CYCLES. Registered May 8, 1923. HUMBER LIMITED, Coventry, England, a corporation of Great Britain. Renewed May 8, 1943.

167,826. **"DEXDALE" AND DRAWING.** HOSIERY. Registered May 8, 1923. NORRISTOWN HOSIERY MILLS. Renewed May 8, 1943, to Dexdale Hosiery Mills, Lansdale, Pa., a corporation of Pennsylvania, by change of name.

167,908. **"COR-DU-ROY".** ASPHALT SHINGLE. Registered May 8, 1923. THE LEHON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 8, 1943.

168,054. **PEE-CHEE.** CERTAIN NAMED SHOE POLISHES AND CLEANERS. Registered May 15, 1923. THE PEE-CHEE CLEANER MANUFACTURING COMPANY. Renewed May 15, 1943, to Pee-Chee Cleaner, Inc., Cleveland, Ohio, a corporation of Ohio, assignee.

168,168. **PRINCETON.** HOSIERY. Registered May 15, 1923. THE POWELL KNITTING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed May 15, 1943.

168,234. **TRAVELETTE.** CERTAIN NAMED TOILET PREPARATIONS. Registered May 15, 1923. RICHARD HUDNUT, New York, N. Y., a corporation of New York. Renewed May 15, 1943.

168,236. **YALE.** HOSIERY. Registered May 15, 1923. THE POWELL KNITTING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed May 15, 1943.

168,335. **FLAKO.** SHORTENING COMPOUND. Registered May 22, 1923. THE CUDAHY PACKING COMPANY, Chicago, Ill., a corporation of Maine. Renewed May 22, 1943.

168,735. **"HONOR" AND DRAWING.** COTTON PIECE GOODS. Registered May 29, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed May 29, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

168,764. **TITANOX.** PAINTS, WHETHER DRY, PASTE, OR READY MIXED. Registered May 29, 1923. TITANIUM PIGMENT COMPANY, INC., Niagara Falls, N. Y. Renewed May 29, 1943, to National Lead Company, New York, N. Y., a corporation of New Jersey, assignee.

168,903. **GUILD.** CARD PINS, T PINS, AND BANK PINS. Registered May 29, 1923. GUILD PRODUCTS CORPORATION. Renewed May 29, 1943, to Stationers' Guild of America, Philadelphia, Pa., a corporation of Pennsylvania, by change of name.

168,938. **BRICO.** STEEL WOOL FOR CLEANING AND POLISHING PURPOSES. Registered May 29, 1923. BRILLO MANUFACTURING COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed May 29, 1943.

168,971. **YOO-HOO.** A NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. Registered May 29, 1923. SPECIALTY SODA WATER BOTTLING COMPANY. Renewed May 29, 1943, to Natole Olivieri, doing business as Specialty Soda Water Bottling Company, Garfield, N. J., successor.

169,228. **GUILD.** WRITING INK AND WRITING FLUID IN VARIOUS COLORS. Registered June 12, 1923. GUILD PRODUCTS CORPORATION. Renewed June 12, 1943, to Stationers' Guild of America, Philadelphia, Pa., a corporation of Pennsylvania, by change of name.

169,248. **"MARYLAND MAID" AND DRAWING.** CANDY. Registered June 12, 1923. MCDOWELL, PYLE & CO., INC. Renewed June 12, 1943, to McDowell, Pyle & Co., Inc., Baltimore, Md., a corporation of Maryland, assignee.

169,478. **RFL.** RADIO EQUIPMENT—NAMELY, STATORS, ROTORS, VARIABLE COUPLING DEVICES, TRANSFORMERS, VACUUM TUBE AND TRANSFORMER SOCKETS. Registered June 19, 1923. RADIO FREQUENCY LABORATORIES, INC., Boonton, N. J., a corporation of New Jersey. Renewed June 19, 1943.

169,629. **VERAMON.** MEDICINAL PREPARATION RECOMMENDED AS A PAIN ALLEVIATOR. Registered June 26, 1923. SCHERING & GLATZ, INC., New York, N. Y. Renewed June 26, 1943, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey, assignee by mesne assignments.

169,805. **"BLUE RIBBON" AND DRAWING.** METAL PIPE NIPPLES. Registered July 3, 1923. CHICAGO NIPPLE MANUFACTURING CO., Chicago, Ill. Renewed July 3, 1943, to Chicago Nipple Manufacturing Co., Chicago, Ill., and Baltimore, Md., a corporation of Delaware.

169,810. **GUILD.** INK ERADICATORS. Registered July 3, 1923. GUILD PRODUCTS CORPORATION. Renewed July 3, 1943, to Stationers' Guild of America, Philadelphia, Pa., a corporation of Pennsylvania, by change of name.

170,010. **GRAPHIC.** ROLLERS FOR PRINTING PRESSES, LITHOGRAPHIC PRESSES, HECTOGRAPH MASSES, AND SIMILAR DEVICES. Registered July 10, 1923. IDEAL ROLLER & MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 10, 1943.

170,018. **HI CARBO.** SCOOPS, SHOVELS, AND STEEL CHUTES. Registered July 10, 1923. H. B. SACKETT SCREEN & CHUTE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 10, 1943.

170,064. **HOYTORIS.** MOUTH WASH. Registered July 10, 1923. HENRY MICHAEL DONAHUE, doing business as Hoyt Apothecaries Co., San Francisco, Calif. Renewed July 10, 1943.

170,076. **HUBBARD'S BONE BASE.** FERTILIZERS. Registered July 10, 1923. THE ROGERS & HUBBARD COMPANY, Portland, Conn., a corporation of Connecticut. Renewed July 10, 1943.

170,097. **NOX-I-DENE.** HAIR TONIC. Registered July 10, 1923. WM. H. GROSS CHEMICAL COMPANY, San Antonio, Tex., a firm. Renewed July 10, 1943.

170,128. **UTILITY.** ELECTRIC CONDUIT FITTINGS EXCLUSIVE OF LIGHTING FIXTURES. Registered July 10, 1923. LAMAR F. BRUNNER, doing business as Utility Fittings, Philadelphia, Pa. Renewed July 10, 1943.

170,152. **"BODY BY FISHER" AND DRAWING.** AUTOMOBILE BODIES. Registered July 10, 1923. FISHER BODY CORPORATION. Renewed July 10, 1943, to General Motors Corporation, Detroit, Mich., a corporation of Delaware, assignee.

170,210. **"FEAST".** CERTAIN NAMED MEAT PRODUCTS. Registered July 10, 1923. HYGRADE PROVISION CO., INC., Brooklyn, N. Y. Renewed July 10, 1943, to Hygrade Food Products Corporation, New York, N. Y., a corporation of New York, assignee.

170,222. **"LIMOID".** HYDRATED LIME. Registered July 10, 1923. CHARLES WARNER COMPANY, Wilmington, Del. Renewed July 10, 1943, to Warner Company, Wilmington, Del., and Philadelphia, Pa., a corporation of Delaware, assignee.

170,230. **KIRKLOW.** GINGHAMS IN THE PIECE. Registered July 10, 1923. HENRY GLASS & CO., New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,273. **D. R. I.** WRAPPING PAPER. Registered July 10, 1923. MCLAURIN-JONES CO., Brookfield, Mass., a corporation of Massachusetts. Renewed July 10, 1943.

REISSUES

FEBRUARY 16, 1943

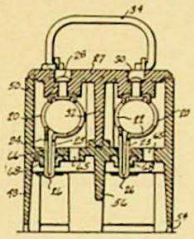
22,266

CIRCUIT INTERRUPTING AND PROTECTING DEVICE

Frederick B. Adam, St. Louis County, and Henry M. Stieglitz, St. Louis, Mo., assignors to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri

Original No. 2,186,813, dated January 9, 1940, Serial No. 87,858, June 29, 1936. Application for reissue July 9, 1942, Serial No. 450,322

19 Claims. (Cl. 200—114)



1. In a fuse cutout switch, switch blades, switch blade receiving contacts, and a switch blade supporting means, said switch blades being secured to said supporting means and having cooperating end portions extending in a direction substantially perpendicular to the plane of said supporting means and expanded portions adapted to encircle a ferrule type fuse terminal the cooperating end portions being offset on the same side of the center of the expanded portions and arranged to exert pressure against each other when inserted in the receiving contacts.

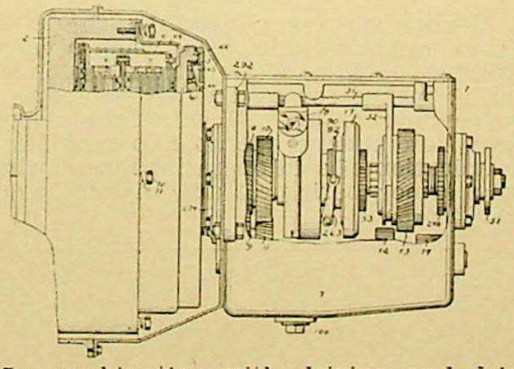
22,267

TORQUE CONVEYING AND CONVERTING APPARATUS

Robert B. Aspinwall, Hazel Park, Mich., and Tracy B. Tyler, Miami Beach, Fla., assignors to The Monopower Corporation, Detroit, Mich., a corporation of Michigan

Original No. 2,183,761, dated December 19, 1939, Serial No. 756,900, December 10, 1934. Application for reissue December 19, 1940, Serial No. 370,862

33 Claims. (Cl. 74—336.5)



1. In combination with driving and drivable torque transmitting elements, power transmission means including a clutch, operating means for the clutch responsive to speed change of the driving element for coupling one element to the other upon attainment of a predetermined speed by the former, additional transmission means including a plurality of fluid pressure operable clutches for connecting said elements at a different ratio, said fluid operable clutches being engageable in overlapping relation, and one thereof being engageable in overlapping relation with respect to the first mentioned clutch, whereby the transmission of torque between said elements may be uninterrupted, and means responsive to speed variation of the driven shaft for controllingly operating said fluid-pressure operable clutches.

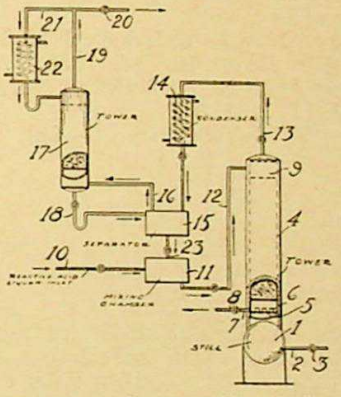
22,268

SEPARATION OF ISOBUTYLENE FROM HYDROCARBON MIXTURES

Lewis A. Bannon and Helmuth G. Schneider, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Original No. 2,281,911, dated May 5, 1942, Serial No. 241,382, November 19, 1938. Application for reissue August 8, 1942, Serial No. 454,884

3 Claims. (Cl. 260—677)



1. In the process of separating isobutylene from mixtures of hydrocarbons by forming an acid liquor by contacting a mixture of hydrocarbons containing isobutylene with sulfuric acid of 55% to 75% concentration, and diluting the said liquor to an acid strength of 45% to 50%, the steps in combination of stripping isobutylene from the acid liquor by passing the diluted acid liquor through a fractionating column countercurrent to a stream of superheated steam, passing the stripped acid liquor to a concentrating kettle connected to the fractionating column, concentrating the acid liquor in said kettle to produce therefrom said current of superheated steam, passing the separated isobutylene together with steam and undecomposed tertiary butyl alcohol through a condenser to condense the steam and the tertiary butyl alcohol, and returning the condensate to the fractionating tower together with a fresh supply of acid liquor containing isobutylene, whereby undecomposed tertiary butyl alcohol is returned directly to the fractionating tower.

22,269

PRODUCTION OF WOOD IMPREGNANT FROM HIGH TEMPERATURE COAL TAR FRACTIONS

Jacquelin E. Harvey, Jr., Washington, D. C., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

No Drawing. Original No. 2,291,335, dated July 28, 1942, Serial No. 356,109, September 9, 1940. Application for reissue October 6, 1942, Serial No. 461,010

4 Claims. Cl. (196—53)

1. In the production of a wood preserving im-

pregnant the process which comprises: subjecting a mixture of high temperature coal tar fractions selected from the group consisting of coal tar, topped coal tar, high boiling coal tar fractions boiling preponderantly above 380° C. and coal tar pitch to the action of hydrogen at a temperature selected between the range of 300–450° C., a pressure in excess of atmospheric and for such length of time as to reduce coke residue and viscosity; thereafter subjecting the beneficiated mixture of coal tar fractions to further hydrogen action at a more elevated temperature not below 440° C. or in excess of substantially 465° C. and for such a length of time as to produce newly formed oils of the wood preserving type characterized by induced toxic value.

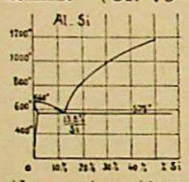
22,270

PROCESS FOR THE MANUFACTURE OF ALUMINUM

Hirsch Loevenstein, New York, N. Y., assignor, by mesne assignments, of one-half to Independent Aluminum Corporation, New York, N. Y., a corporation of New York

Original No. 2,198,673, dated April 30, 1940, Serial No. 240,331, November 14, 1938. Application for reissue April 28, 1942, Serial No. 440,870. In France July 11, 1938

16 Claims. (Cl. 75—63)



1. Process for the extraction of aluminum in the purified state from substances containing it in high proportions together with at least one impurity of the group consisting of silicon, iron, titanium, comprising an alloying operation of the said substance with at least a metallic extracting body of the group consisting of zinc, tin, mercury and their alloys, and a separating operation, at a temperature below the solidification point of aluminum, of the liquid alloy and the solid bodies.

22,271

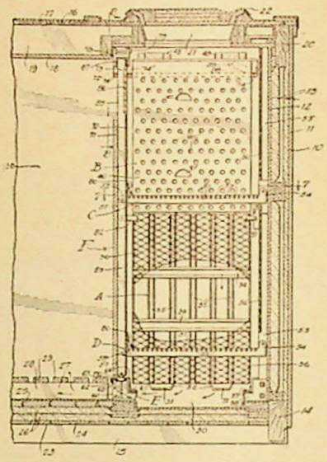
CONVERTIBLE BULKHEAD FOR REFRIGERATOR CARS

John S. Lundvall, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois

Original No. 2,238,700, dated April 15, 1941, Serial No. 316,708, February 1, 1940. Application for reissue December 15, 1941, Serial No. 423,083

24 Claims. (Cl. 62—19)

1. In a refrigerator car, a convertible ice bunker comprising a movable bulkhead, an ice grate pivotally mounted between said bulkhead and the end wall of the car and a floor rack



pivoted to one of the car walls, said floor rack forming a convection duct when swung into vertical position adjacent the car wall.

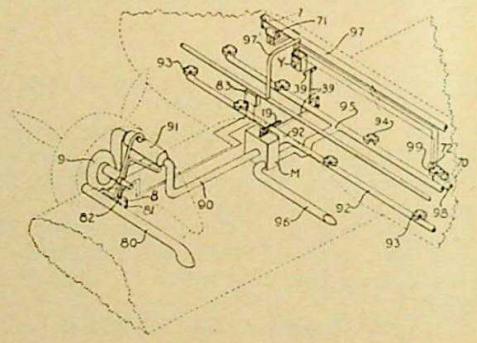
22,272

PRESSURE CONTROL SYSTEM FOR AIRCRAFT CABINS

Nathan C. Price, Hollywood, Calif., assignor, by mesne assignments, to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington

Original No. 2,208,554, dated July 16, 1940, Serial No. 154,438, July 19, 1937. Application for reissue November 12, 1940, Serial No. 365,396

89 Claims. (Cl. 244—59)

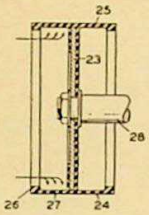


32. Mechanism for controlling the pressure within an aircraft cabin, comprising a valve for controlling the flow of air through such cabin, operating means for said valve, said operating means communicating with external atmospheric pressure, and means operable to regulate such communication of said operating means with the external atmospheric pressure, thereby to govern the cabin pressure.

PATENTS

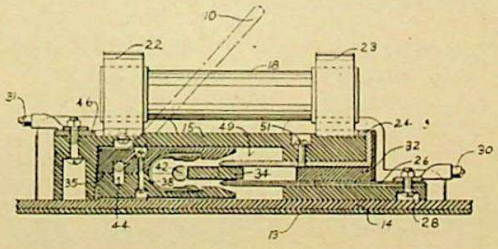
GRANTED FEBRUARY 16, 1943

2,310,917
SELF-PACKING PISTON
Le Grand Daly, Port Clinton, Ohio
Application July 10, 1940, Serial No. 344,699
7 Claims. (Cl. 309—4)



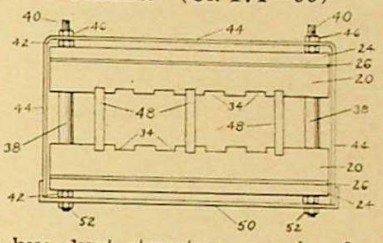
1. An improved self-sealing piston for operation in a fluid pressure cylinder comprising a nonyielding, discoidal body member having securely attached thereto an annular packing member molded completely over one face and a portion of the other face of said discoidal member and having a resilient relatively thin cylindrical flange portion extending beyond and perpendicular to the plane surface of said body member, said flange portion having upon its circumferential edge portion a thickened bead, said cylindrical flange portion forming, with said body portion, a pressure cup disposed to maintain an improved fluid sealing contact with a cylinder by reason of compressive forces developed during operation of said piston.

2,310,918
ENCLOSED SWITCH
Frederick B. Adam, St. Louis County, Mo., assignor to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri
Application July 29, 1940, Serial No. 348,092
11 Claims. (Cl. 200—114)



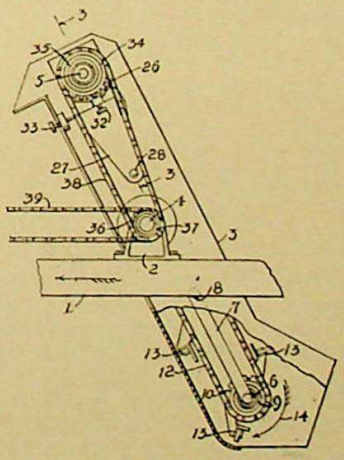
1. In an electric switch, a base of insulating material provided with a longitudinally extending recess in the underside thereof, a pair of relatively long flat contacts secured to the base and extending into the recess, a pair of fuse terminals mounted on the top side of said base and adapted to support an overload protective device, one of said contacts being electrically connected to one of said fuse terminals, a box of insulating material positioned for sliding back and forth in said recess, one end of said box provided with openings therein to allow the contact blades to enter the box, a main contactor supported in the box and arranged to engage the inner faces of the contacts when the switch is in the closed circuit position, and a U-shaped pressure contactor supported in said box and arranged to engage the outer surfaces of said contacts and press them against the main contactor when the switch is in the closed circuit position.

2,310,919
BUS DUCT
Frederick B. Adam, St. Louis County, Mo., assignor to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri
Application June 20, 1941, Serial No. 398,870
2 Claims. (Cl. 174—99)



1. In a bus duct structure a pair of oppositely disposed insulators, said insulators being provided with complementary slots opening to an edge thereof to accommodate a bus bar therein, means for spacing said insulators at a predetermined distance apart, each of said insulators being provided with a reduced portion opposite the slotted edge, a metallic channel member fitted over said reduced portion, said reduced portion forming a shoulder which sets the channel member back from the sides of the insulator to provide a tortuous path between the bus bars and the channel member and thus prevent arcing therebetween, supporting members extending through the insulator members and supporting them in proper position and an enclosure enclosing the insulators and bus bars held therebetween and supported by said supporting members.

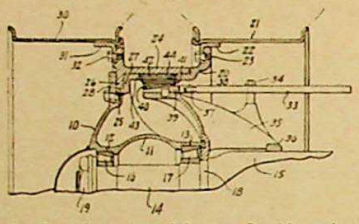
2,310,920
CONVEYER
Manuel Adrian, San Jose, Calif.
Application December 22, 1941, Serial No. 423,965
3 Claims. (Cl. 198—203)



1. The combination, with an inclined conveyer frame, of an endless conveyer mounted in the conveyer frame with a drive shaft extending laterally through the sides of the conveyer frame, and bearing members on the shaft ends, said conveyer frame having openings formed in its sides to encompass said shaft and sufficiently large to permit adjustment of the shaft in all directions, swingable arms pivotally mounted on the conveyer frame sides to overlie

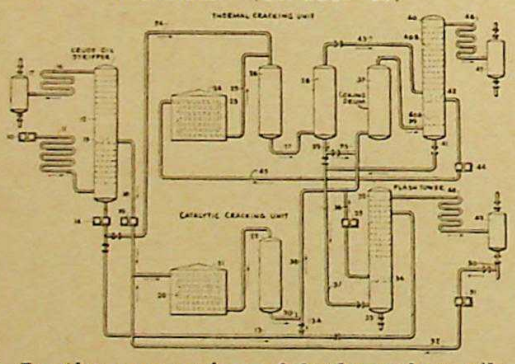
said openings and provided with longitudinal slots encompassing said shaft, a guide plate mounted on each arm and provided with an opening to encompass said bearing member and a guide way to limit the movement of said bearing member therein, means for adjusting said plates in said guide ways, one end of said shaft having a drive sprocket thereon and a resiliently mounted clutch inserted between the sprocket and the adjacent bearing member.

2,310,921
DUAL WHEEL VEHICLE
Charles S. Ash, Milford, Mich.
Original application January 24, 1939, Serial No. 252,596. Divided and this application June 10, 1941, Serial No. 397,403
5 Claims. (Cl. 301—36)



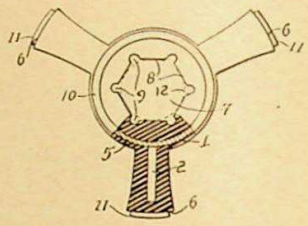
1. A dual wheel assembly including in combination a pair of dual wheels in side-by-side coaxial relation, means for rotatably mounting one of the wheels and a bearing adjacent the periphery of and of nearly the same diameter as said rotatably mounted wheel for independently rotatably mounting the other wheel on the first.

2,310,922
CONVERSION OF HYDROCARBON OILS
Joseph Mason Barron, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 18, 1941. Serial No. 379,463
7 Claims. (Cl. 196—49)



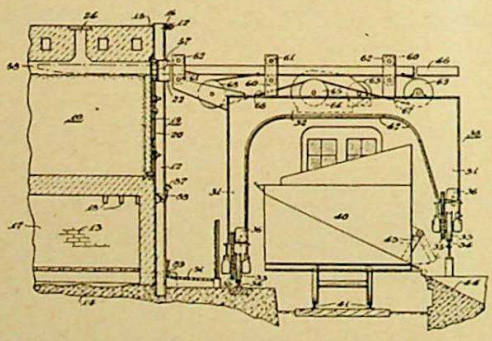
1. In the conversion of hydrocarbon oils the process that comprises separately distilling crude petroleum to separate residual constituents from lighter components, subjecting such straight-run lighter components to catalytic cracking, combining residual constituents from the crude petroleum with hot products from the catalytic cracking operation and converting the admixed products to coke in a coking zone, subjecting the evolved vapors from the coking zone to a primary dephlegmation to form a tarry condensate adapted for fuel oil, passing the dephlegmated vapors to a fractionating zone wherein the vapors are fractionated to separate a reflux condensate from lighter products, directing said reflux condensate to a thermal cracking zone wherein the oil is subjected to cracking conditions of temperature and pressure, separating the resultant cracked products into vapors and residue and combining the separated vapors with vapors from the coking operation, after said primary dephlegmation thereof, for fractionation in said fractionating zone.

2,310,923
SHAFT BEARING
Charles L. Bean, San Jose, Calif.
Application October 2, 1941, Serial No. 413,283
6 Claims. (Cl. 308—238)



1. A shaft bearing for a well pipe comprising, a one piece foundation member consisting of a metal tube having radially directed webs projecting outwardly from its exterior surface and extending lengthwise thereof, and an envelope of resilient rubber for said member, the envelope portion for the webs extending outwardly beyond their outer edges to contact the well pipe and having their outer edges wider than their bases to form arcuate surfaces corresponding to the curvature of the pipe, said envelope having a passage formed axially therethrough to receive a rotating shaft.

2,310,924
COKE OVEN APPARATUS
Joseph Becker, Pittsburgh, Pa., assignor to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application November 10, 1939, Serial No. 303,722
3 Claims. (Cl. 214—18)



3. The arrangement of the coke-side equipment for a battery of regenerative horizontal tapered coke ovens which comprises: a gantry propellable alongside the coke-side battery front on ground-rails with the legs of the gantry disposed on tracks on opposite sides of quencher car tracks and its bridge section at a height to permit free passage of a quencher car therebeneath; an oven coal-charge leveler-bar carried by the gantry for movement therewith from oven to oven, means mounted on the gantry for causing reciprocal movement of said leveler-bar over its bridge section, transversely of the line of movement of the gantry, into and out of the oven chambers through their coke-side doors at the tops thereof and guide means mounted on the gantry, supporting the leveler-bar for free suspended movement into and out of the oven chambers.

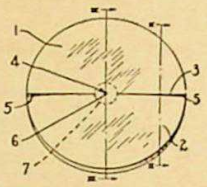
2,310,925

PROCESS OF MAKING LENSES

Ralph F. Bardwell, Southbridge, and John H. Smith, Sturbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application October 11, 1939, Serial No. 299,006

7 Claims. (Cl. 51—284)



1. The process of forming a semi-finished blank for a multifocal lens comprising forming on said blank two adjacent areas having different surface curvatures thereon with one of said surfaces having portions raised above the other and resulting in a cliff-like wall extending transversely of the blank along a substantially straight line, generating an optical surface on said surface lying above the other to a radius of curvature which will control in part the resultant prescriptive power desired through said portion of the completed lens and to such a depth whereby a portion of said optical surface will extend within the area of the lower surface and be bounded by a line of revolution between said lower surface and said optical surface, and generating a separate optical surface on said lower surface to a radius of curvature which will control in part the prescriptive characteristics desired through said portion of the completed lens and simultaneously forming said separate optical surface to such a depth whereby said line of revolution is substantially entirely removed with the result that said two optical surfaces will substantially merge with each other at one point along the line of the cliff-like wall.

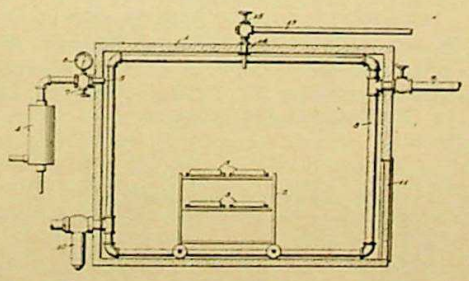
2,310,926

VULCANIZATION

Roger Charles Bascom, Merrick, N. Y., assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware

Application May 1, 1937, Serial No. 140,156

2 Claims. (Cl. 260—725)



1. The process of manufacturing gas expanded rubber which comprises gassing a rubber sulphur composition containing a retarder of vulcanization of the group consisting of formaldehyde, acetaldehyde, furfuraldehyde, glucose and benzaldehyde at a temperature of the order of 280° F., the retarder retarding the vulcanization of the rubber mix during the gassing operation, and thereafter admitting ammonia gas to the rubber for chemically transforming the retarding agent into an accelerator of the class of aldehyde ammonia condensation products to effect vulcanization.

2,310,927

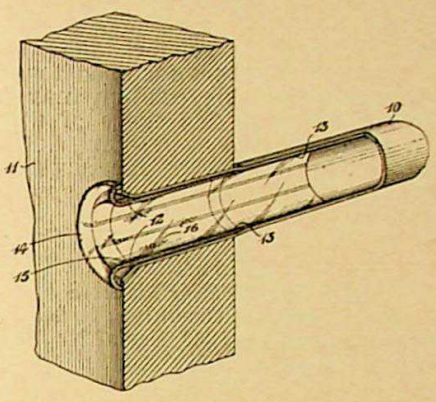
CONDENSER TUBE PROTECTOR

Thomas J. Bay, United States Navy

Application January 3, 1942, Serial No. 425,530

1 Claim. (Cl. 285—54)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



Means for protecting from corrosion and erosion the inlet end of a tube extending through a header plate of a surface condenser, comprising a tubular insert of transparent material which is resistant to corrosion and capable of retaining its initial hardness in the presence of salt water and heat, said insert having sufficient longitudinal rigidity to permit it to be forced into the inlet end of said tube with a relatively tight fit and possessing a high degree of elongation to permit it to absorb the impact of media entering said tube and to permit it to adapt itself to tubes, the internal diameters of which may vary within reasonable tolerances, the transparent property of said material providing for the visual inspection of the interior surface of said condenser tube throughout the entire circumferential area of said insert to determine if deterioration caused by imperfect sealing contact between said insert and said tube exists, without removal of said insert from said tube.

2,310,928

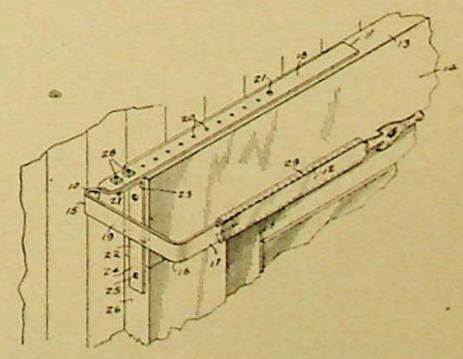
ADJUSTABLE DRAPERY BRACKET

Ruth M. Behrle, Washington, D. C.

Application July 29, 1942, Serial No. 452,766

3 Claims. (Cl. 211—105.3)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device adapted to suspend a drape generally parallel to the plane of a window in adjustable overlapping relation with respect to the sides of the window comprising a generally U-shaped strap member having a generally rectangular cross-section with one leg of the U-shaped member presenting a flat side when viewed normal to the plane of the U defined thereby said flat side being provided with a plu-

rality of spaced apertures therein for accommodating fastening means, and a generally L-shaped strap member having one leg thereof adapted to be fastened to said U-shaped member with the other leg of said L-shaped member extending therefrom normal to the plane of the U defined by said U-shaped member, said L-shaped member being provided with a plurality of apertures therein for accommodating fastening means, whereby the support made up of the U and L shaped members fastened together in predetermined adjustable position may be fastened to the top and side edges of a window frame in predetermined overlapping relation by screws extending through the apertures provided in said U and L shaped members respectively.

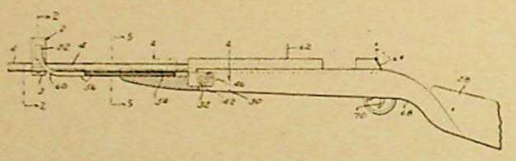
2,310,929

GUN SIGHTING MEANS

John Beresky, Brooklyn, N. Y.

Application April 11, 1941, Serial No. 387,995

7 Claims. (Cl. 33—53)



1. Gun sighting means for use with a gun having a rear sight, said means comprising a front sight having a circular opening therein of substantial diameter, the center of said opening, when said front sight is in position on the gun, being located in the "bead" line from the rear sight to a target, an adjustable stop mounted on said front sight and arranged to provide a graduated succession of concentric sight openings between full open and peep sight dimensions, and means, constructed and arranged to be carried by said gun in manually operative proximity to a hand hold of the gun pointer when sighting the gun on the target, for operating said adjustable stop to effect the gradual reduction of said front sight opening, during the aiming operation, from any desired initial approximation to wide open position to the desired peep sight dimension, or vice versa.

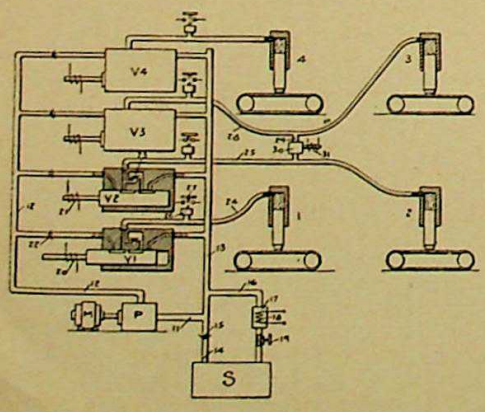
2,310,930

LEVELING DEVICE

Luther E. Blanchett, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application August 17, 1939, Serial No. 290,591

22 Claims. (Cl. 280—6)



21. A heavy mobile machine comprising: a base; four ground-engaging units; four jacks each being connected to and supported by one of the four ground-engaging units, and all being connected to and supporting the base; means to vary the effective length of each jack between extreme positions of full contraction and full expansion; two level-responsive control devices, each responsive to the departure from level of one of a pair of mutually perpendicular normally horizontal lines in the base; controls for varying the effective length of the jacks, including means to set each jack to vary when its diagonal is unlevel; characterized by having means to prevent the application of power tending to vary any given jack in the direction of or beyond one of its extreme positions whenever either (*a*) the given jack is in that extreme position, or (*b*) the jack diagonally opposite the given jack is in the other extreme position and either or both of the other two jacks is in the extreme position of the given jack.

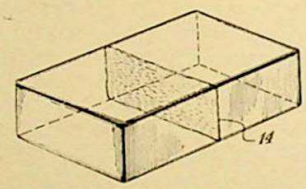
2,310,931

PARTITIONED SOAP AND PROCESS OF FORMING THE SAME

John W. Bodman, Winchester, and Fred Forrest Pease, Squantum, Mass., assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine

Application July 27, 1940, Serial No. 348,008

15 Claims. (Cl. 252—134)



1. A method of treating soap to facilitate the partitioning of a mass of such soap which comprises dividing a heated mass of soap by causing said soap to flow relative to a dividing element to alter the arrangement of the soap crystals along a predetermined planar zone in the soap mass to decrease the natural cohesion of the soap crystals in the said zone, and causing the divided mass of soap to rebond after passing said dividing element.

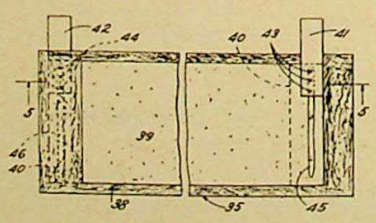
2,310,932

ELECTROLYTIC DEVICE

Joseph B. Brennan and Leona Marsh, Euclid, Ohio; said Marsh assignor to said Brennan

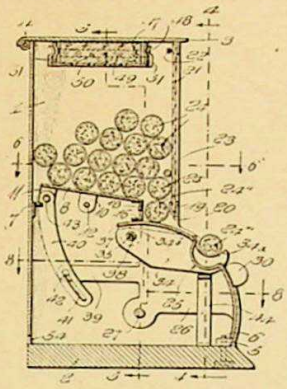
Application November 30, 1938, Serial No. 243,206

5 Claims. (Cl. 175—315)



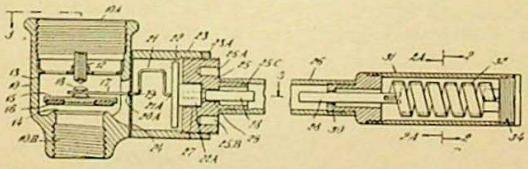
1. A spacer and electrode assembly for electrolytic cells comprising a unitary porous glass fabric having spray deposited metallic coatings on opposite sides thereof, said spray deposited coatings each constituting an electrode and being separated and insulated from each other by said glass fabric, at least one of said coatings consisting of film forming metal and having a dielectric film formed on the surfaces of the spray deposited particles.

2,310,933
CIGARETTE DISPENSER
Clarence W. Burger, Arlington, Va.
Application July 1, 1941, Serial No. 400,669
10 Claims. (Cl. 312—84)



1. A cigarette dispenser comprising a casing, a transversely extending shelf dividing said casing into upper and lower compartments, means for pivotally mounting said shelf for limited tilting movement for facilitating delivery of cigarettes stacked thereon, an angularly movable selector mechanism pivotally mounted in said lower compartment, a recess in said selector mechanism alignable with the tilting edge of said shelf for receiving a cigarette therefrom, and means for elevating said cigarette out of said recess as said selector mechanism is angularly moved for facilitating the picking up of the cigarette.

2,310,934
THERMO-RESPONSIVE DEVICE
James Richard Campbell, Altadena, Calif., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey
Application September 17, 1940, Serial No. 357,083
13 Claims. (Cl. 236—48)

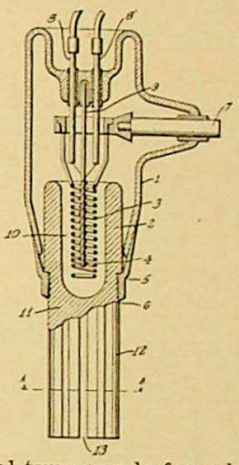


4. In a thermostatically-controlled valve mechanism, the combination which comprises a lever adapted to open and close the valve, a U-spring mounted on one end of the lever with an outwardly projecting free end, a rotatable friction plate having a major surface against which the free end of the U-spring bears off center, the surface of the plate on which the spring bears being disposed transverse to the spring and the axis of rotation of the plate being disposed transverse to the surface, a thermally-responsive element, and means for rotating the friction plate in one direction as the element is heated and in the reverse direction as the element is cooled.

2,310,935
RESINOUS COMPOSITION
Richard Paul Carlton and Byron J. Oakes, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application January 29, 1941, Serial No. 376,422
9 Claims. (Cl. 260—20)

1. As a new composition of matter, a resinous composition comprising an intimate heat reaction product on an oil-soluble alkyd resin with a phenolic resin material produced by cooking together an oil-soluble phenol-formaldehyde resin with a drying oil.

2,310,936
ELECTRON DISCHARGE APPARATUS
Georges Paul Chevigny, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 2, 1941, Serial No. 386,513
In France March 30, 1940
11 Claims. (Cl. 250—27.5)



1. An external type anode for a high frequency electron discharge device, said anode being of generally cylindrical shape and having at one end a cup-shaped hollowed-out portion generally coaxial with the generally cylindrical shape, said hollowed-out portion extending longitudinally inward of said anode to accommodate an electrode structure, said anode further including adapter means for joining said anode to an evacuated envelope, said adapter means extending circumferentially of said anode at a point proximate to the end of said hollowed-out portion opposite said first-mentioned end.

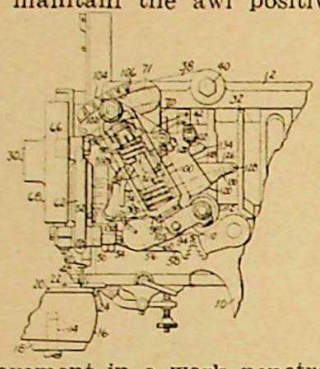
2,310,937
PAIN-ALLEVIATING MATERIAL
Hendry C. Connell, Kingston, Ontario, Canada, assignor to Canadian-American Pharmaceutical Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 20, 1937, Serial No. 137,931. In Belgium May 2, 1935
10 Claims. (Cl. 167—78)

1. A process for producing a substance capable of reducing the pain resulting from cancer which comprises growing a proteolytic microorganism on cancer tissue for a sufficient period of time to at least partially decompose said cancer tissue and extracting therefrom the liquid products produced thereby.

2,310,938
FASTENING INSERTING MACHINE
Guy R. Coyne, Milwaukee, Wis., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 10, 1940, Serial No. 369,454
12 Claims. (Cl. 1—30)

1. A fastening inserting machine having, in combination, an awl, means for reciprocating the awl to cause it to penetrate a work piece and to form fastening receiving holes in the work piece, said means being arranged to yield when the awl

meets an excessive resistance, thereby permitting the awl to come to rest, and means additional to said reciprocating means constructed and arranged to maintain the awl positively against



further movement in a work penetrating direction under the action of its reciprocating means when the excessive resistance is removed.

2,310,939

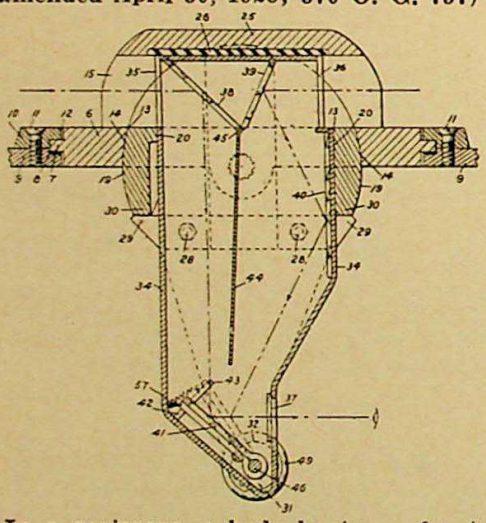
PERISCOPE

David J. Crawford, United States Army, Durant, Miss.

Application August 28, 1941, Serial No. 408,643

14 Claims. (Cl. 88—68)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a periscope, a body having a front and a rear opening at one end and an observation aperture at the other end, a fixed mirror in said body adjacent the front opening, a second fixed mirror in said body adjacent the rear opening, said mirrors adapted to receive images from opposite directions and reflect them into said body, a third, image-erecting mirror in said body arranged to receive reflections from said second mirror and transmit them toward said other end of said body, and a fourth mirror pivotally mounted in said last mentioned end of said body for selective movement into two positions of adjustment to receive images from said first and third mirrors alternatively and reflect them through said observation aperture.

2,310,940

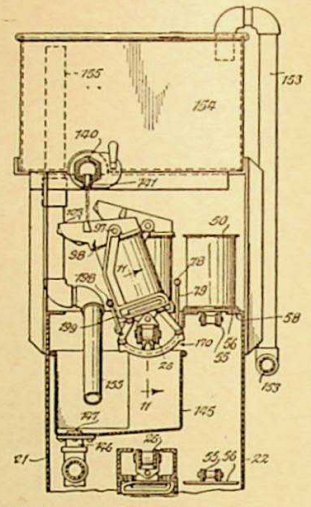
CAN DRAINING AND FILLING APPARATUS

William De Back, Niagara Falls, N. Y., assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York

Application July 15, 1940, Serial No. 345,480

10 Claims. (Cl. 226—22)

1. In a machine of the character described, an endless conveyer chain having an upper stretch, a series of can carriers, means for mounting each of said can carriers on said chain including a pivot the axis of which extends generally parallel with the line of movement of said can carriers, means for feeding cans containing the goods to be packed individually to said can carriers, means for filling said cans while on the upper stretch of said conveyer chain with the liquid with which the goods are to be packed,



means cooperating with said can carriers while traversing said upper stretch of said conveyer chain for tilting said can carriers about said pivots from an upright position while said cans are filled to provide a predetermined amount of liquid in said cans short of fullness, means for subsequently moving said can carriers to an upright position, and means for subsequently discharging said cans from said can carriers.

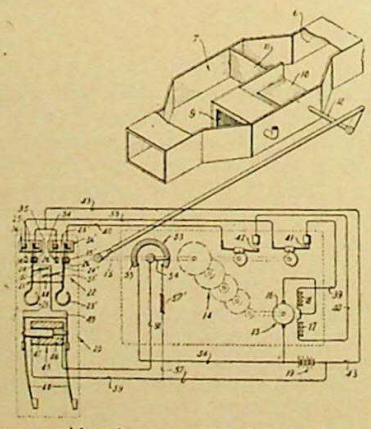
2,310,941

MOTOR CONTROL

Ritchie P. Dewey, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

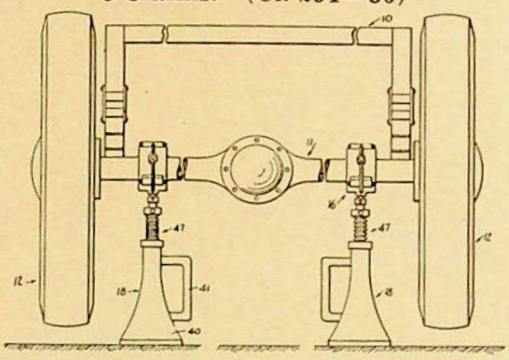
Application April 4, 1941, Serial No. 386,877

15 Claims. (Cl. 236—74)



10. A proportioning control having, in combination, two condition responsive instruments having adjacent but different control points and operable independently of each other, a reversible power operator having a driven member and operable in one direction under the control of one of said instruments and in the opposite direction under the control of the other instrument, and means operable to shift the control points of both of said instruments progressively with the movements of said member and in directions corresponding to such movements.

2,310,942
AUTOMOBILE JACK
Conrad Donges, Secaucus, N. J.
Application October 24, 1940, Serial No. 362,565
6 Claims. (Cl. 254—86)



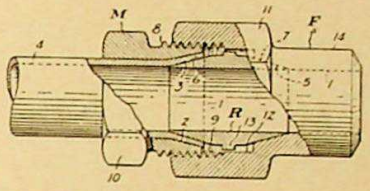
6. A vehicle having a rear axle housing, a rear axle within said housing, a pair of chambers on said housing on opposite sides of the mid-portion thereof, a pair of similar, symmetrically disposed, beveled gears within each chamber, means to spline one of said beveled gears to the axle, a hub rotatably mounted within each chamber and between the beveled gears, a plurality of radially extending stud shafts on each hub, pinions rotatably mounted on the stud shafts meshing within the beveled gears, one of said pinions having a vertical axis and being formed with a portion projecting through the chamber, and with a socket at the lower end of said portion, a pair of jacks, each comprising a base having an internally screw threaded opening, a screw threaded member screwed within the opening of each base, each screw threaded member having a portion adapted to be received within each socket, means to connect the sockets to the portions of the screw threaded members received therein, wheels on the ends of said axle, said axle and the wheels having registering, longitudinal slots, members screwed to the ends of said axle, and coupling members rotatably and non-slidably connected to the members which are screwed to the ends of said axle, said coupling members having keys slidably received within the registering slots.

2,310,943
POLYVINYL ACETALS
George Lowrance Dorough, Holly Oak, and David Malcolm McQueen, Wilmington, Del., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 5, 1938, Serial No. 233,480
14 Claims. (Cl. 260—73)

4. The acetals of carbonyl compounds containing a group capable of coupling with a diazo compound to form an azo dye with compounds of the group consisting of polyvinyl alcohol and its derivatives containing free hydroxyl groups, said acetals having further radicals containing free acid groups taken from the class consisting of carboxylic and sulfonic acid groups.

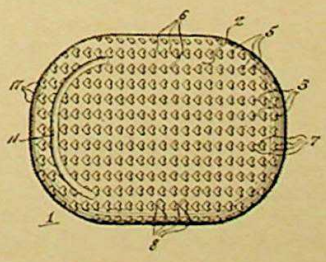
2,310,944
TUBE COUPLING
James L. Douglass, Cleveland Heights, Ohio
Application September 9, 1940, Serial No. 355,886
3 Claims. (Cl. 285—86)

1. A tube coupling device comprising cooperatively threaded male and female members and an internal tubular sealing member having an intermediate external circumferential aligning rib and tapered sealing surfaces extending in opposite directions away from said aligning rib, one of said tapered surfaces being adapted to extend into and engage the inner surface of a flared end of a tube, said male member having a bore to receive the tube and having a tapered seat adapted to surround and contact the outer surface of the flared end of said tube, the female member having a substantially cylindrical bore and having a tapered seat adapted to surround one of the sealing surfaces of said tubular member and to cooperate therewith to form a fluid seal when the tubular member is pressed longitudinally thereagainst, an outer portion of the bore of the female member being internally threaded, the remaining portion of the bore be-



ing slightly larger in diameter than the diameter of said aligning rib to cooperate with the outer surface of said rib for maintaining said tubular member substantially centrally of the female member, the sides of said rib being substantially spaced from the end of the bore and the end of the male member, so that when the male and female members are threaded together with the tubular member in position, one of the tapered surfaces of said tubular member will form a seal with the tapered seat of the female member, and the oppositely disposed sealing surface of the female member and the inner tapered surface of the male member will form a seal with the flared end of the tube to be coupled and the entire thrust will be taken upon the tapered surfaces of the male and female members.

2,310,945
SCOURING IMPLEMENT
Maurice Eisenberg, Millburn, N. J., assignor, by mesne assignments, to Downy Products Co., Orange, N. J.
Application February 27, 1941, Serial No. 380,832
1 Claim. (Cl. 15—236)

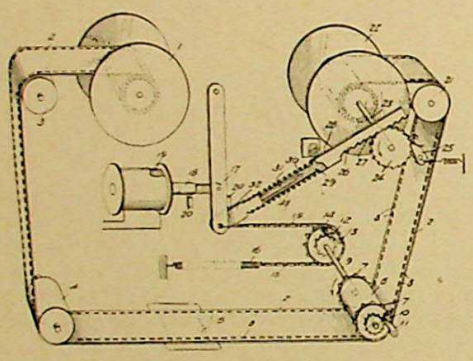


A scouring implement comprising, a substantially flat body of rubber having on one face thereof a multiplicity of relatively spaced protuberances having contact ends parallel to the plane of said face, said protuberances being of polygonal cross-sectional shape to provide lateral V-shaped plowing edges projecting in various directions, the opposite face of said body having spaced finger engageable sockets radially spaced around and adjacent to an end thereof, and said first mentioned face having a channel formed therein in substantial alignment with and beneath the outer extremities of said sockets whereby to provide a bend-line to facilitate upturning of marginal portions of the body when the latter is applied to angular surfaces.

2,310,946
FACSIMILE RECORDING PAPER
William G. H. Finch, Newton, Conn.
No Drawing. Application April 7, 1939, Serial No. 266,709
2 Claims. (Cl. 204—2)

1. A dry electrolytic facsimile recording paper for discoloring upon the passage of electric currents therethrough comprising a comparatively dark conductive paper sheet, said sheet being uniformly coated with a comparatively light electrosensitive coating, said coating comprising a mixture of titanium dioxide, a conductive metallic powder, aniline hydrochloride, and potassium nitrate.

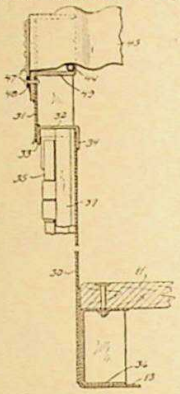
2,310,947
AUTOMATIC TAKE-UP DEVICE
William R. Fischer, Dayton, Ohio
Application August 23, 1941, Serial No. 408,066
1 Claim. (Cl. 242—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a photographic film feeding device, a feed roller adapted to be intermittently actuated to feed a predetermined length of film from a supply spool into register with an exposure aperture, a one-way driving means for said feed roller, an intermittently actuated movable element movable in opposite directions between predetermined limits, a connection between said movable element and the one-way driving means for said feed roller, whereby motion of said element in one direction causes actuation of said feed roller, a take-up spool for receiving exposed film, a one-way driving means for said take-up spool, a link interconnecting the one-way driving means for said take-up spool, and said movable element for driving said take-up spool simultaneous with the driving of said feed roller, and said link including a slip connection permitting a limited extension and retraction thereof, and a resilient means yieldingly resisting extension of the link.

2,310,948
DEMOUNTABLE FREIGHT CONTAINER
Benjamin F. Fitch, Zaccheus Meade Lane, Fairfield County, Conn., and Ragnar A. Norbom, Nutley, N. J., assignors, by mesne assignments, to National Fitch Corporation, New York, N. Y., a corporation of Delaware
Application October 13, 1939, Serial No. 299,328
4 Claims. (Cl. 220—1.5)

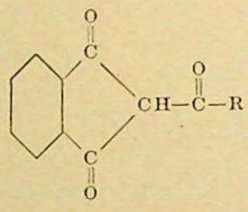
1. A container having a floor, a wall and a roof, the wall having a doorway through it, a downwardly facing channel beam having its inner flange welded to the end wall, a plate connected with the roof and welded at its lower edge to the outer flange of the channel beam, and doors for the container, the outer flange



of said channel beam being beyond the outer face of the doors when closed.

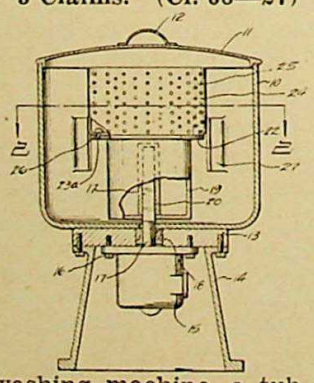
2,310,949
LETHAL COMPOSITION FOR INSECTS
Jared H. Ford, Washington, D. C., and Howard W. Eck, East Lansing, Mich., assignors to Kilgore Development Corporation, Washington, D. C., a corporation of Virginia
No Drawing. Application April 4, 1939, Serial No. 266,035
11 Claims. (Cl. 167—24)

1. An insecticide comprising a compound of the type



wherein R is a hydrocarbon radical, the compound serving to impart lethal qualities to the insecticide.

2,310,950
WASH MACHINE
Bronislaw Goldman, Canton, Ohio
Application March 25, 1941, Serial No. 385,125
3 Claims. (Cl. 68—27)



2. In a washing machine, a tub for clothing and washing solution, a rotor mounted centrally and extending substantially the full vertical height of the tub having a cylindrical bottom portion of substantial diameter for subjecting the washing liquid and clothes to circular movement, and said rotor having a perforated upper portion constituting a centrifugal dryer receptacle of a diameter sufficiently less than the wall of the tub to allow for the removal of the clothes through the annular space therebetween, a cover for said tub, and drive means for the rotor.

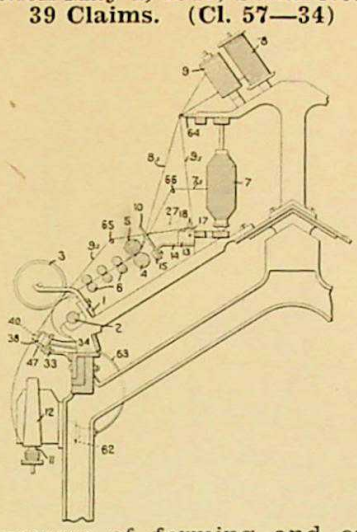
2,310,951

PROCESS AND APPARATUS FOR FORMING AND TREATING YARN

Lloyd C. Greene, Sanford, Maine

Application May 1, 1941, Serial No. 391,305

39 Claims. (Cl. 57—34)



1. The process of forming and conditioning yarn which comprises progressively moistening a spun strand, simultaneously and progressively drafting a roving strand, progressively twisting the moistened strand and the drafted strand and passing the resulting yarn while travelling and twisting in contact with a heated surface.

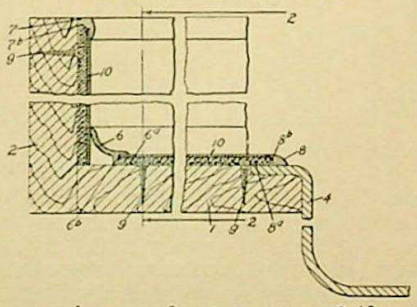
2,310,952

MEANS AND METHOD OF PREPARING WEARING SURFACES

Thomas H. Greer, San Diego, Calif.

Application February 13, 1939, Serial No. 256,182

3 Claims. (Cl. 20—15)



3. In a wearing surface means of the class described, the combination of a thin sheet of resilient metal plate having a concave outer surface and an opposing convex surface, a fibrous plate member secured on said convex surface of said sheet of resilient metal plate and conforming to the curvature thereof, and rigidly mounted edging members provided with opposed groove portions arranged to engage opposite edges of said metal plate and said fibrous plate for holding the same in flat relation whereby the resilient character of said metal plate tends to force itself inwardly in the opposite direction from the outer surface thereof.

2,310,953

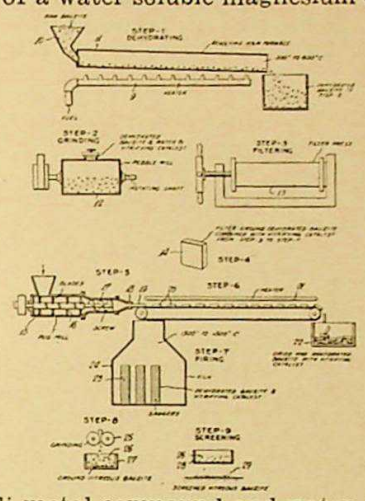
CERAMIC FROM BAUXITE AND PROCESS OF MAKING SAME

John Allen Heany, New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y.

Application June 29, 1936, Serial No. 87,825

9 Claims. (Cl. 106—62)

1. A process of producing an unfused, vitric-like, dense, non-porous, amorphous, formed and fired article of the mineral bauxite which comprises preparing an amorphous, dehydrated bauxite by dehydrating said bauxite at a temperature below 1000° C., forming a mixture of amorphous, dehydrated bauxite with a small percentage of a water soluble magnesium compound,



an alkali metal compound and water, wet grinding in a pebble mill, mixing or pugging the mixture, forming said mass into the form of an article desired, and firing said article to a temperature of between 1300° C. and 1450° C.

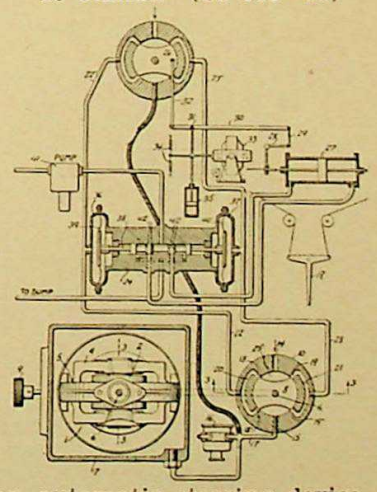
2,310,954

BALANCED AUTOMATIC STEERING DEVICE

Frederick S. Hodgman, Glen Rock, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application July 26, 1939, Serial No. 286,534

20 Claims. (Cl. 244—78)



1. In an automatic steering device, the combination with a position maintaining means and a rudder, of a differential air flow pick-off valve mounted on and moved by said means, a second remotely located differential air flow valve moved in accordance with the movements of said rudder, and a rudder servo motor differentially controlled by said two valves and connected to said rudder and said second valve.

2,310,955

SYSTEM OF MEASUREMENT AND/OR CONTROL

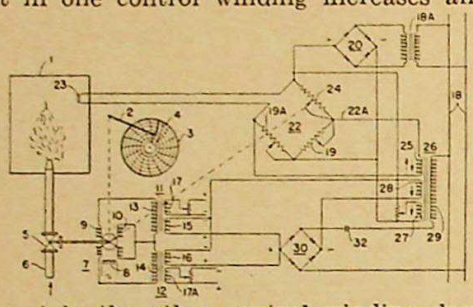
Anthony J. Hornfeck, Cleveland, Ohio

Application December 30, 1939, Serial No. 311,728

20 Claims. (Cl. 236—74)

5. Apparatus for controlling the temperature of a heated device, comprising, in combination, a

pair of saturable core reactors each having an alternating current output winding and a direct current control winding for saturating the reactor, means responsive to the temperature of the heated device for differentially controlling the current in the primary control windings so that upon an increase in temperature the current in one control winding increases and the



current in the other control winding decreases and vice versa, a secondary control winding for each of said reactors for regeneratively amplifying the saturation of each reactor in accordance with the current in the output winding, and means for varying the heating of the heated device dependent upon the difference in magnitudes of the currents in the output windings of said reactors.

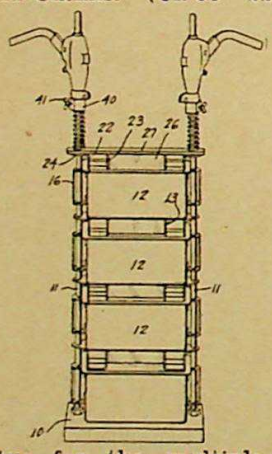
2,310,956

APPARATUS FOR THE MULTIPLE MOLDING OF HAMS AND THE LIKE

Frank H. Hoy, Milwaukee, Wis.

Application July 31, 1940, Serial No. 348,630

11 Claims. (Cl. 53—22)



1. Apparatus for the multiple molding and processing of a meat product comprising a plurality of molds for the product, follower members respectively associated with each one of the molds, said molds and members being alternately disposed with each of said members supported for movement within a mold, alignment and guide means for said members, and means for resiliently applying compacting pressure to said followers including jacks associated with said guide means.

2,310,957

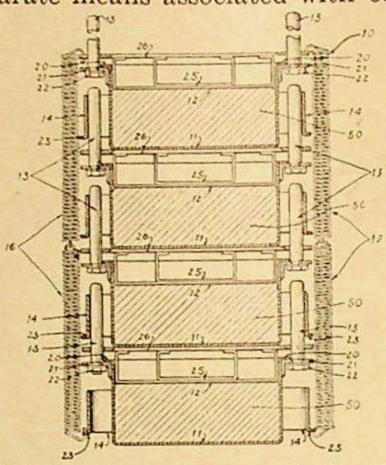
APPARATUS FOR THE MULTIPLE MOLDING OF HAMS AND THE LIKE

Frank H. Hoy, Milwaukee, Wis., assignor to Hoy Equipment Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 3, 1941, Serial No. 391,635

12 Claims. (Cl. 53—22)

1. In an apparatus for processing and molding meat, a plurality of open-topped molds, a plurality of follower members telescopable into said molds, said molds and follower members alternating with each other in aligned relationship, separate means associated with each mold



for maintaining said aligned relationship while said apparatus is assembled, and pressure generating means for telescoping said follower members into said molds.

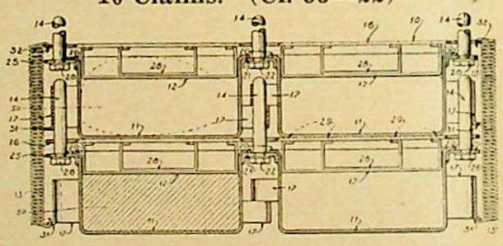
2,310,958

APPARATUS FOR MOLDING MEATS

Frank H. Hoy, Milwaukee, Wis., assignor to Hoy Equipment Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 3, 1941, Serial No. 391,636

10 Claims. (Cl. 53—22)



1. In an apparatus for the processing and molding of meat products, a plurality of rows of molds, means rigidly interconnecting the molds within each row, a plurality of rows of follower members movable in said molds, means rigidly interconnecting the follower members within each row in vertical alignment with said molds, said groups of molds and follower members alternating in stacked aligned relationship, guide means associated with each row of molds for confining the movement of an immediately superposed row of follower members and the next superposed row of molds to the direction of alignment, and resilient pressure-generating means for urging the lowermost row of molds and the uppermost row of follower members toward each other.

2,310,959

PRUNING SHEARS

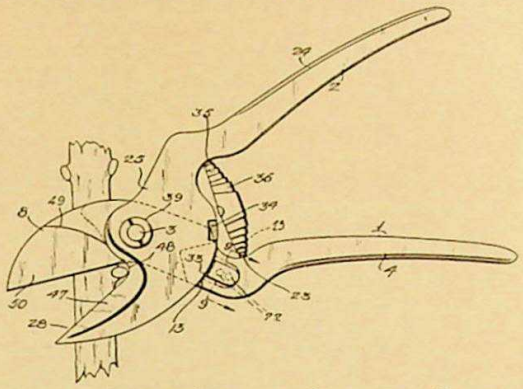
Howard C. James, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Tacony, Pa., a corporation of Pennsylvania

Application February 7, 1942, Serial No. 429,919

16 Claims. (Cl. 30—262)

1. Shears comprising pivotally connected frame members, a separate cutting blade having an end portion extending between the overlapping faces of said members, means for anchoring the blade to one of the members for movement with the latter, said end portion of the blade extending over a major portion of the said over-

lapping facial areas of said members and forming a running bearing for the relatively movable member precluding material frictional contact



between said members, and an anvil on said movable member for cooperative engagement with the cutting edge of said blade.

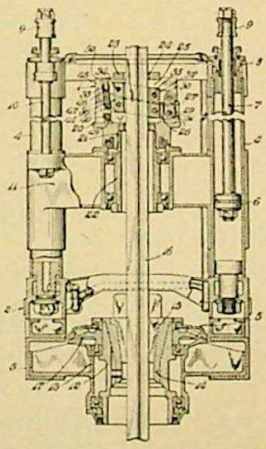
2,310,960

CHUCK MECHANISM

Harry C. Johansen, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application August 27, 1941, Serial No. 408,440

20 Claims. (Cl. 24—249)



1. In a chuck mechanism, a casing, a support mounted on said casing for limited movement with respect thereto, parallel links pivotally connected to said movable support, and chuck jaws pivotally connected to and supported by said parallel links, said link pivots and the points of pivotal connection between the links and jaws being so arranged as to provide for parallel motion movement of the jaws upon swinging of the links about their pivots.

2,310,961

COPOLYMER OF ISOPROPENYL TOLUENE AND ACRYLONITRILE AND PROCESS OF PRODUCING SAME

Edward L. Kropa, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 3, 1941, Serial No. 391,712

10 Claims. (Cl. 260—17)

10. A process comprising copolymerizing a mixture including from 1 to 3 parts of isopropenyl toluene to about 1 part of acrylonitrile, said mixture being in the form of an aqueous dispersion containing methyl cellulose as a dispersing agent.

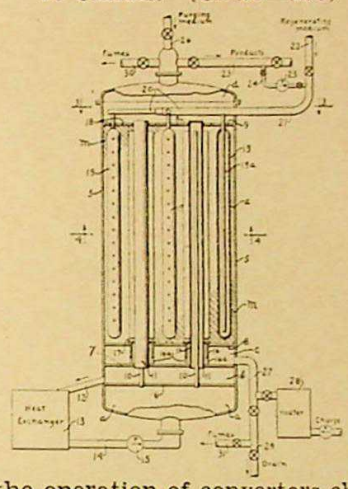
2,310,962

CONTACT TREATMENT OF FLUIDS

Raymond C. Lassiat, Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application April 20, 1939, Serial No. 269,052

18 Claims. (Cl. 23—288)



3. In the operation of converters charged with a deep bed of solid contact material for promoting chemical reactions in which on-stream reactions alternate with regenerating reactions to restore the contact material to condition to promote the desired reaction and in which perforated conduits are disposed within the bed of contact material for distribution of fluid within and throughout the contact material, the process step of feeding fluid to said bed through said conduits during both on-stream and regenerating reactions, a regenerating fluid in substantial amount during regenerating reactions and a blocking fluid in small amount during on-stream reactions.

11. A converter having adjacent one end thereof three partitions extending thereacross in spaced parallel relation forming as many manifolding chambers and a reaction chamber beyond the inmost of said partitions adapted to be filled with solid contact material, said partitions having aligned openings of progressively increasing size toward said reaction chamber, conduits with closed ends disposed in said reaction chamber and extending loosely through the openings in said inmost partition and having open ends secured in the openings in the second of said partitions, smaller conduits with open ends mounted in the openings in the first or outmost of said partitions and extending in nested telescoping relation within said first named conduits whereby heat exchange fluid admitted to the first manifolding chamber passes into said smaller conduits, thence into the outer of said nested conduits and thence into said second manifolding chamber, apertured sleeves secured in the openings of said inmost partition and extending to said second partition in spaced encircling relation with the outer of said nested conduits to provide communication between said reaction chamber and said third manifolding chamber, and means at said inmost partition for keeping contact material from entering said sleeves.

2,310,963

VALVE

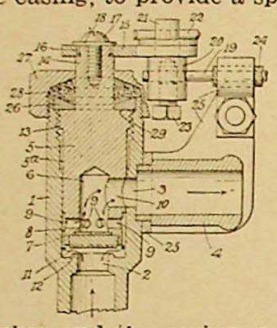
Raymond J. Lauer, Cicero, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application September 23, 1939, Serial No. 296,272

4 Claims. (Cl. 251—43)

1. A valve comprising a casing having an inlet and an outlet, a valve seat in proximity to said

inlet, a rotatable and longitudinally movable valve member in said casing, a valve stem fixed to said valve member, a recess in said valve member at one end thereof, the end of the valve member in proximity to said recess being closed, said valve member having a seating portion which engages said valve seat, the valve member having a central cylindrical portion in slidable engagement with the inner surface of the valve casing, the end portion of the valve member beyond said cylindrical portion, in proximity to said seating portion, being smaller in diameter than the valve casing, to provide a space between



the valve member and the casing, a passageway connecting said recess with said space and at all times out of alignment with said outlet, a second passageway spaced apart from said first mentioned passageway and in alignment with said outlet only when the valve is in its open position and connecting said recess with said outlet, so that when the valve member is rotated and moved longitudinally to its open position, liquid passes from said inlet to said outlet, and means for rotating said valve member a partial rotation to move said valve member to its fully open position.

2,310,964

PURIFICATION OF TITANIUM CARBIDE AND SIMILAR MATERIALS

Charles C. Laughlin, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 10, 1941, Serial No. 397,425

5 Claims. (Cl. 209—5)

1. A method of removing free carbon from a material taken from the class consisting of the carbides, cyanonitrides and carboxides of titanium and zirconium, comprising agitating said material with a soap solution having a concentration between 0.1% and 1.5%, allowing to settle, and pouring off the supernatant liquor.

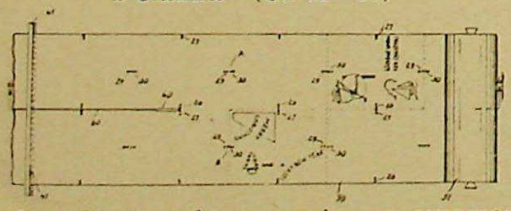
2,310,965

FLOCKED MATERIAL

Abraham Leavy, New York, N. Y., and Joseph Ippolito, Paterson, N. J.

Application October 21, 1939, Serial No. 300,678

2 Claims. (Cl. 41—36)



1. A continuous sheet carrying an ornamental flocked sectional design, each section of said design being arranged within the boundaries of a segment to be cut from said sheet, a series of groups of flocked dots each linearly arranged, extending longitudinally of said sheet and defining a longitudinal boundary of a series of segments, a second series of groups of flocked dots extending along lines at an angle to said first series, each of said second groups being parallel to each other and defining a lateral boundary between adjacent segments, said dots being arranged to provide cutting guides for severing said sheet into predetermined individual segments.

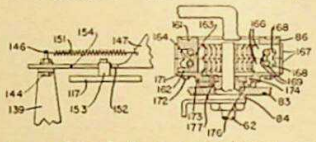
2,310,966

PRINTING TELEGRAPH APPARATUS

Carl A. Levin, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application April 25, 1938, Serial No. 204,038. Divided and this application December 30, 1939, Serial No. 311,767

5 Claims. (Cl. 197—53)



1. In a type wheel for printing telegraph apparatus or the like, a pair of spaced flanges, a drum portion interconnecting said flanges, a peripheral ridge integral with said drum portion disposed intermediate said flanges, said drum portion, ridge, and flanges having radially disposed slots therein, a plurality of type elements arranged in rows and having shanks slidably disposed in said slots, the shanks of said type elements having notches therein, and a garter spring passing through the notches of all of the type elements in each row and biasing said type elements toward the center of said type wheel, said ridge and each adjacent flange forming a channel to maintain one of said garter springs in position in the notches of the associated row of type elements, the resiliency of each spring holding it in the channel thus formed.

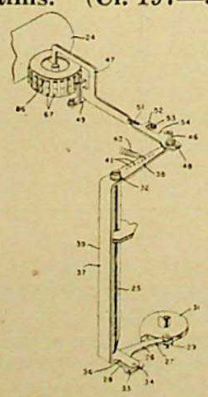
2,310,967

PRINTING TELEGRAPH APPARATUS

Carl A. Levin, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application December 30, 1939, Serial No. 311,767, which is a division of application Serial No. 204,038, April 25, 1938. Divided and this application February 27, 1941, Serial No. 380,911

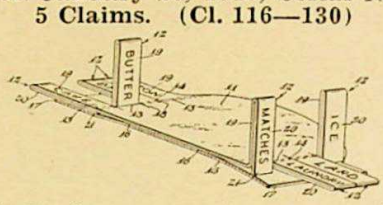
5 Claims. (Cl. 197—53)



3. In a printing telegraph apparatus, a plurality of type elements, a print hammer for operating said elements, an actuating lever for said print hammer, resilient means for urging said print hammer into abutting relationship with said actuating lever, and means to operate said actuating lever to positively drive said print hammer through a predetermined portion of its

stroke, said resilient means enabling said print hammer to move away from said actuating lever to travel the last portion of its stroke by momentum against the influence of said resilient means.

2,310,968
INDICATOR
Malvin Lichter, New York, N. Y., assignor to The Stickless Corporation, New York, N. Y., a corporation of New York
Application January 20, 1940, Serial No. 314,825
5 Claims. (Cl. 116—130)

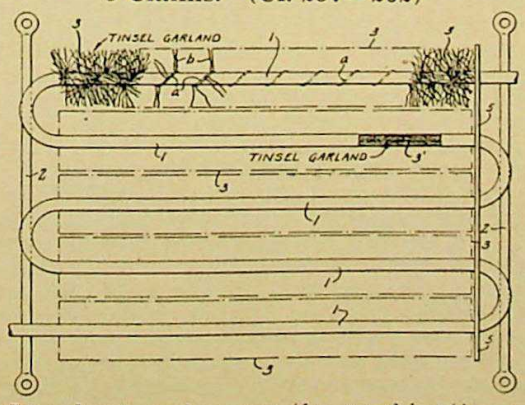


1. An indicator comprising a main body portion and a plurality of tabs; each of said tabs carrying indicia; said tabs being hingedly connected to said main body portion whereby said tabs may be selectively turned to indicating or non-indicating position; and means for maintaining said tabs in a selected position, said means comprising a rigid extension of a portion of said tab extending inwardly beyond said hinged connection and a backing member secured to said main body portion and engaging said extension in said selected position.

2,310,969
PROCESS FOR THE MANUFACTURE OF SHAPED STRUCTURES FROM SOLUTIONS OF CELLULOSE DERIVATIVES
Leon Lilienfeld, deceased, late of Vienna, Germany, by Emerich Hunna, executor, Vienna, Germany; Antonie Lilienfeld, administratrix of said Leon Lilienfeld, deceased, assignor to Lilienfeld Patents Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application May 13, 1940, Serial No. 334,991. In Germany May 23, 1939
6 Claims. (Cl. 18—54)

1. Process for the production of shaped structures consisting of or containing cellulose derivatives comprising the production of a solution of cellulose ether xanthate containing not over 4% caustic soda and precipitating the cellulose derivative by coagulating the said solution by means of a bath containing an alkali carbonate as the coagulating agent, and which bath is free from ammonium salts of strong mineral acids.

2,310,970
HEAT EXCHANGER
Alexander S. Limpert, Bay Shore, N. Y.
Application May 28, 1941, Serial No. 395,617
3 Claims. (Cl. 257—262)



1. In a heat exchanger, the combination comprising a tubular support having a rope of tinsel garland wound thereon and secured thereto.

2,310,971
STABILIZED HIGH FILM STRENGTH LUBRICATING OIL
Bert H. Lincoln and Waldo L. Steiner, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application February 29, 1940, Serial No. 321,480
1 Claim. (Cl. 252—56)

A composition of matter comprising in combination a major portion of a lubricant, from .5 percent to 10 percent by weight of a chlorinated carbon compound and from .001 percent to 1 percent by weight of ethyl abietate.

2,310,972
RUBBER AND ASPHALT DISPERSION CEMENT
Harvey J. Livermore and Gordon F. Lindner, Detroit, Mich., and Henry N. Stephens, White Bear, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application December 27, 1938, Serial No. 247,842
9 Claims. (Cl. 260—760)

1. The method of making an oil-in-water type dispersion which comprises blending together reclaimed rubber and asphalt at a temperature above about 200° F. to form a uniform mass; incorporating water in such mass by mixing and mastication to form a uniform dispersion of the water-in-oil type, while gradually reducing the temperature of said mass, said water being incorporated in sufficient amount but not greatly in excess of that amount which is sufficient to permit subsequent inversion of phase solely upon bringing a dispersing agent into uniformly disseminated contact with said water-in-oil dispersion; and then, while maintaining said water-in-oil dispersion at a temperature of approximately 140°–160° F., bringing a dispersing agent into uniformly disseminated contact therewith, so that inversion of phase takes place forthwith.

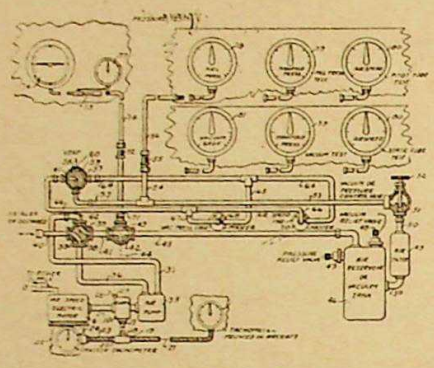
2,310,973
β-ALKYL-CINNAMIC ACID DERIVATIVES
William A. Lott, East Orange, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application August 27, 1938, Serial No. 227,060
3 Claims. (Cl. 260—477)

1. Dialkylamino-alkyl β-alkyl-cinnamate hydrochlorides.

2,310,974
INSTRUMENT FIELD TESTING SET
Harvey Newton Lumm, Dayton, Ohio
Application April 5, 1940, Serial No. 328,055
9 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an instrument testing device of the character described a fluid conduit adapted to be connected to a vacuum or pressure responsive indicating instrument to be tested, a pump, a first valve means connecting said pump and said fluid conduit and operative in one position to cause said pump to create a fluid pressure above atmospheric pressure within said conduit and operative in a second position to evacuate said fluid conduit to a pressure below atmospheric pressure, a master fluid pressure measuring means including a positive pressure conduit and a negative pressure

conduit, a second valve means for respectively connecting said positive pressure and said negative pressure conduits to said fluid conduit and means for simultaneously actuating said first and second valve means such that when said first



valve means is in said one position said second valve means connects said positive pressure conduit to said fluid conduit and when said first valve means is in said second position said second valve means connects said negative pressure conduit to said fluid conduit.

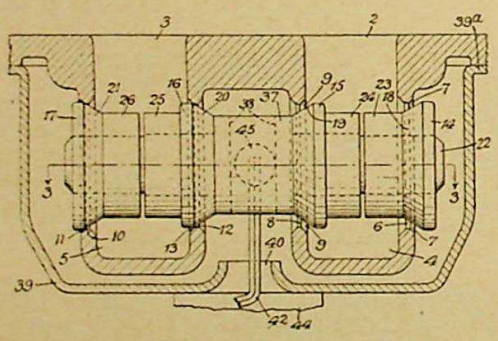
2,310,975

VALVE MECHANISM

James K. Lund, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application September 7, 1940, Serial No. 355,804

7 Claims. (Cl. 236—12)



1. A valve mechanism comprising a casing having a cold liquid inlet and a hot liquid inlet, separate chambers into which said inlets discharge, each of said chambers having outer and inner ports, each outer port being larger than the associated inner port, a valve device comprising a valve carrying member, four valve members on said valve carrying member for controlling said ports, the ports and valve members having inclined cooperating faces the valves and valve carrying member being loosely mounted in said ports, said valve carrying member and valve members being suspended by the liquid stream when the mechanism is in operation, thereby dispensing with mechanical guides for the valves, and a thermostat for controlling the position of said valve members.

2,310,976

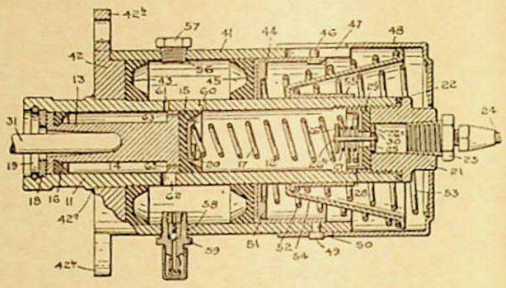
HYDRAULIC BRAKE

Malcolm L. Masteller, Miami, Fla.

Application November 1, 1940, Serial No. 363,908

2 Claims. (Cl. 60—54.6)

1. In a combined master cylinder and supply means wherein the supply means surrounds a portion of the master cylinder in such manner that the liquid supply forms an annular source around said master cylinder, the combination of a cylindrical casing, a closure for one end of said casing, a piston slidable within said casing for creating pressure in a compression chamber forward of said piston, a recess in said piston forming an annular chamber between said piston and



said casing, a second tubular casing longitudinally surrounding a portion of said first casing and annular end closures for said second casing each including a flexible annular double flanged cup, all forming an annular supply chamber between said casings, and a plurality of passages associating said chambers with each other, substantially as described.

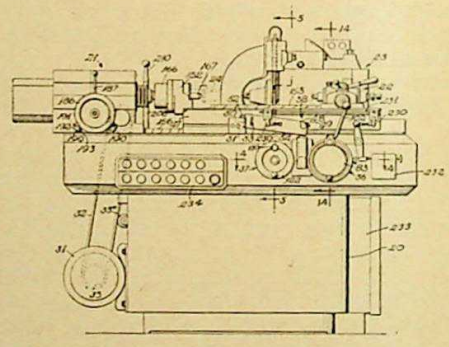
2,310,977

MACHINE TOOL

Max A. Mathys, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

Application August 3, 1940, Serial No. 350,348

20 Claims. (Cl. 51—95)



1. In a grinding machine, in combination, a base, a first slide reciprocably mounted thereon, means for rotatably supporting a workpiece on said slide for axial traverse therewith, a second slide, a third slide, a fourth slide, means for supporting said second, third and fourth slides in operative relation to said first slide for reciprocation transversely thereof, a rotatably driven grinding wheel mounted on said third slide for cutting engagement with said workpiece, wheel truing means mounted on said fourth slide for dressing the cutting surface of said grinding wheel, means operatively interconnecting said base and said second, third and fourth slides including means for moving said third and fourth slides as a unit with said second slide to advance or retract said grinding wheel relative to said workpiece, means for moving said third and fourth slides as a unit relative to said base upon movement of said third slide relative to said second slide, means for moving said fourth slide relative to said base through a selected distance and for simultaneously moving said third slide relative to said base through a distance having a pre-

determined relation to said selected distance, and separate means for reciprocating said first slide including means for rotating said workpiece.

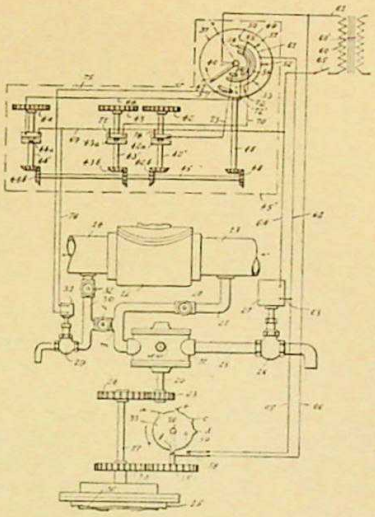
2,310,978

AUTOMATIC VALVE OPERATING MECHANISM

Chester T. McGill and Omar Fred Dubruiel, Elgin, Ill., assignors to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois

Application May 29, 1939, Serial No. 276,296

34 Claims. (Cl. 210—24)



1. In a water treating apparatus, the combination with a conduit for supplying water to a water treating device, and valve mechanism for controlling the admission and direction of flow of fluid through the device, said valve mechanism being shiftable from a service position through a series of regeneration positions and back to service position, of a meter for measuring the flow of water to the device through said first named conduit, a hydraulically operable motor operatively connected with the valve mechanism to operate the same from one position to another, a conduit connecting said motor to a source of liquid under pressure, a valve controlling the flow of liquid from said last named conduit through said motor to start and stop the operation of the valve mechanism by said hydraulic motor, means operated successively by the meter in each series of movements of the valve mechanism for automatically opening the valve each time when a predetermined amount of water has passed through the meter, and means operated by the valve mechanism for automatically closing the aforesaid valve when the valve mechanism has been moved a predetermined distance.

2,310,979

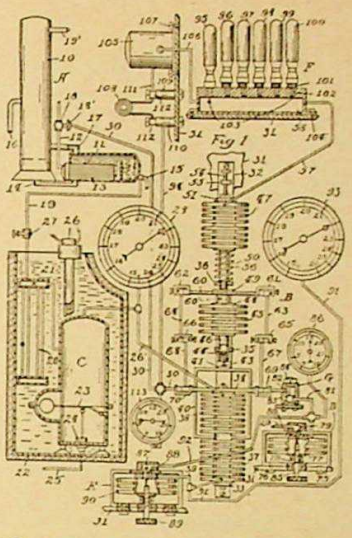
GASOLINE AND OIL VAPOR PRESSURE CONTROLLER

William M. Mercer, Avenal, Calif.

Application August 23, 1939, Serial No. 291,594

4 Claims. (Cl. 137—153)

1. A pressure regulator, comprising, a line for supplying operating fluid under pressure to a valve controlling element, a pilot valve for releasing operating fluid from said line to influence the operation of said controlling element, a pair of opposed bellows connected to said pilot valve and normally balanced to maintain the pilot valve in normal operative position, each of the members of said opposed bellows being exposed to an independently controlled pressure fluid supply, and auxiliary fluid volume controlled means comprising a series of volume chambers



independently connected with said pilot valve for selectively varying delayed action thereof.

2,310,980

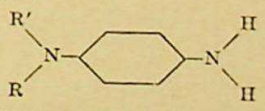
REDUCING BATH FOR COLOR PHOTOGRAPHY AND PROCESS OF USING THE SAME

Emery Meschter, Milltown, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 19, 1939, Serial No. 295,685

5 Claims. (Cl. 95—88)

1. An aqueous photographic reducing bath containing as the sole type of reducing agent at least one photographic developing agent taken from the group consisting of compounds of the general formula:



wherein R and R′are members of the group consisting of hydrogen and alkyl radicals of 1 to 4 carbon atoms and the water soluble salts thereof and an amount of an aliphatic amine of 1 to 6 carbon atoms free from negative groups and hydroxyl groups attached to carbon sufficient to change the characteristics of the solution so that it no longer distinguishes between exposed and unexposed silver salts, said amount being within the range from 8 ccs. to 30 grams per liter of solution.

2,310,981

REVERSAL PROCESS OF COLOR PHOTOGRAPHY

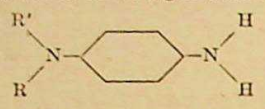
Emery Meschter, Milltown, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 19, 1939, Serial No. 295,686

7 Claims. (Cl. 95—2)

1. A photographic reversal process comprising developing a photographic element containing a latent image in an ordinary developer to produce a negative image and developing the reversed image without re-exposure in the presence of a

color former with an aqueous reducing bath containing a compound of the general formula:



wherein R and R′ are members of the group consisting of hydrogen and alkyl radicals of 1 to 4 carbon atoms, and the water soluble salts thereof, and an aliphatic amine of 1 to 6 carbon atoms in an amount sufficient to change the characteristics of the solution so that it no longer distinguishes between exposed and unexposed silver salts, said amount being within the range from 8 ccs. to 30 grams per liter of solution.

2,310,982

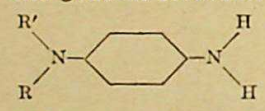
PHOTOGRAPHIC REVERSAL PROCESS OF PRODUCING DYE IMAGES WITHOUT RE-EXPOSURE

Emery Meschter, Milltown, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 19, 1939, Serial No. 295,687

5 Claims. (Cl. 95—88)

1. A photographic reversal process comprising developing a photographic element containing a latent image in silver halides in an ordinary developer to produce a negative image and developing the residual silver halide image without re-exposure in the presence of a black color former with an aqueous reducing solution containing a compound of the general formula:



wherein R and R′ are members of the group consisting of hydrogen and alkyl radicals of 1 to 4 carbon atoms, and the water soluble salts thereof, and an aliphatic amine of 1 to 6 carbon atoms in an amount sufficient to change the characteristics of the solution so that it no longer distinguishes between exposed and unexposed silver salts, said amount being within the range from 8 ccs. to 30 grams per liter of solution; said base being free from negative groups and hydroxyl groups attached to carbon.

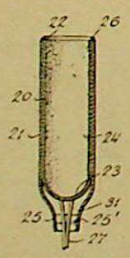
2,310,983

ELECTRODE FOR LUMINOUS TUBES AND METHOD OF PRODUCING THE SAME

Samuel C. Miller, New York, N. Y.

Application February 20, 1940, Serial No. 319,820

12 Claims. (Cl. 176—126)



1. In an electrode for luminous devices, the combination comprising an electrically-conductive shell, its internal surface having an uninterrupted and interiorly smoothly rounded closed end, an electrically-conductive envelope on said shell and in electrical contact therewith, and a lead-in wire secured to said envelope to leave said shell unimpaired and to have substantially uniform heat transmission characteristics.

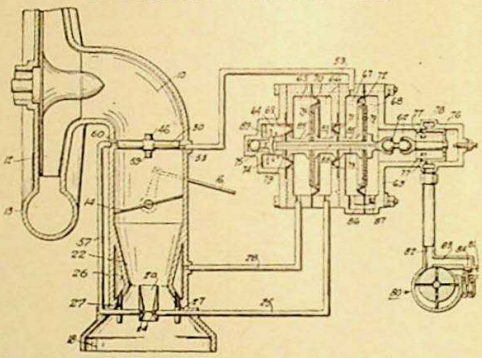
2,310,984

CHARGE FORMING DEVICE

Frank C. Mock and Edward J. Partington, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 30, 1938, Serial No. 243,067

19 Claims. (Cl. 261—69)



1. In a carburetor, an induction passage, a throttle controlling the passage, a venturi in the passage anterior to the throttle, a fuel nozzle positioned to discharge into the induction passage posterior to the throttle, means including a fuel conduit for supplying fuel under pressure to the nozzle, a valve in said conduit, and control means for said valve comprising a pressure responsive member connected to the valve and subjected to the pressure of the fuel in the conduit anterior to the valve and to the pressure in said venturi, said fuel and Venturi pressures respectively tending to open and close the valve.

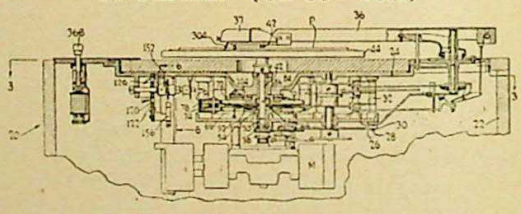
2,310,985

MOTION PICTURE AND SOUND PROJECTOR

Daniel G. Moore, Brooklyn, N. Y., assignor to Willard B. Kapper, New York, N. Y.

Application April 29, 1941, Serial No. 390,975

32 Claims. (Cl. 88—16.2)



4. In a motion picture projector and sound record reproducer synchronizing apparatus of the character described, means for causing the operation of said projector and said sound reproducer, and means for utilizing the first reproduced sound for automatically rendering said sound reproducer ineffective.

2,310,986

HYDROLYSIS OF FATS AND OILS

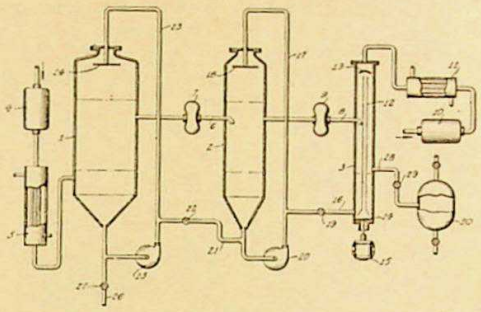
John F. Murphy, Fitchburg, Mass., assignor to Lever Brothers Company, Cambridge, Mass., a corporation of Maine

Application November 14, 1941, Serial No. 419,119

19 Claims. (Cl. 260—415)

1. A method of hydrolyzing fat and oil in a plurality of successive hydrolyzing zones comprising supplying fat and oil under pressure to the first of said zones, supplying water at an elevated temperature and at a higher pressure to the last

of said zones, transferring fatty material to each succeeding zone from the preceding zone under increasing pressures, transferring water to each



preceding zone from the succeeding zone under decreasing pressures, withdrawing water and glycerol from the first zone, and withdrawing fatty acid from the last zone.

2,310,987

GRINDING BALL AND THE METHOD OF MAKING THE SAME

Roy H. Noderer, Johnstown, and Lester R. Walker, Homestead, Pa.

No Drawing. Application May 28, 1941, Serial No. 395,686

2 Claims. (Cl. 148—12)

1. The herein described method of manufacturing hardened steel grinding balls of a size exceding two inches in diameter, which consists in forging the balls from a chromium-bearing low carbon manganese steel at a temperature of from 2050° F. to 2450° F., quenching the forged balls at a temperature of from 1450° F. to 1500° F. in water to a residual temperature of from 400° F. to 600° F., and then drawing said balls at their said residual temperature for at least two hours.

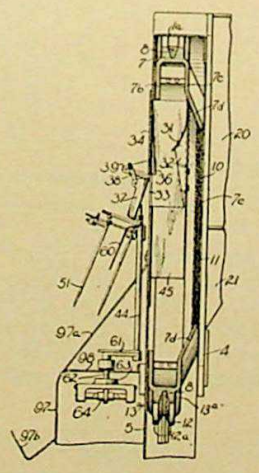
2,310,988

MATERIAL HANDLING AND WEIGHING MACHINE

Leon J. Nowak, Jr., Chicago, Ill.

Application December 8, 1937, Serial No. 178,688

12 Claims. (Cl. 249—58)



2. In a weighing machine, a conveyor for feeding material in a stream, a scale element, a deflector supported upon said element for tilting movements into and out of said stream, bag opening mechanism supported upon said element including fingers for expanding a bag and retaining the same for receiving material from said deflector and means responsive to the movement of a bag on said mechanism for controlling said deflector.

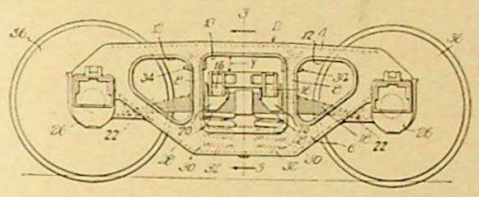
2,310,989

CAR TRUCK

Alfred H. Oelkers, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application August 2, 1940, Serial No. 349,448

21 Claims. (Cl. 105—197.1)



9. In a quick wheel change railway car truck, spaced side frames of truss type each comprising tension and compression members and spaced columns forming a bolster opening, said members merging adjacent the ends of the frame with integrally formed journal boxes, coil springs seated on each of said tension members beneath said bolster opening, a semi-elliptic spring housed within each frame and seated at spaced points on the associated coil springs and supported at its extremities on the associated frame, spaced equalizer members on said semi-elliptic springs in each of said openings, and a load carrying member extending between said frames with jaw ends engaging said spaced equalizer members.

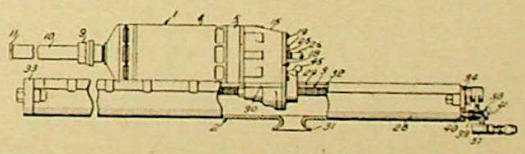
2,310,990

DRILLING APPARATUS

Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application August 29, 1940, Serial No. 354,741

25 Claims. (Cl. 77—32)



1. In a drilling apparatus, the combination comprising a motor for rotating a drill bit, said motor having a casing, a support for said motor and on which the motor casing is mounted for oscillatory movement, feeding means for the drill bit including a feeding element operatively connected to said support, and means actuated by the oscillatory movement of the motor casing during the drilling operation for actuating said feeding means.

2,310,991

ANNEALING APPARATUS

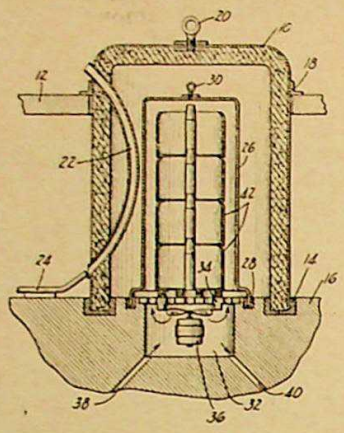
Robert C. Pierce, Niles, Mich., assignor to National Standard Company, Niles, Mich., a corporation of Michigan

Application March 8, 1940, Serial No. 322,870

8 Claims. (Cl. 263—47)

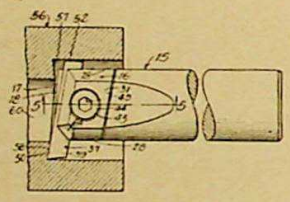
1. In wire annealing apparatus a wire carrying device comprising a tub with a flat bottom, a

vertical cylindrical side wall, a central vertically extending stem, and a plurality of generally



similar stems in annular array between the central stem and the side wall.

2,310,992
BORING DEVICE
John R. Proksa, Chicago, Ill.
Application January 21, 1939, Serial No. 252,163
2 Claims. (Cl. 77—58)

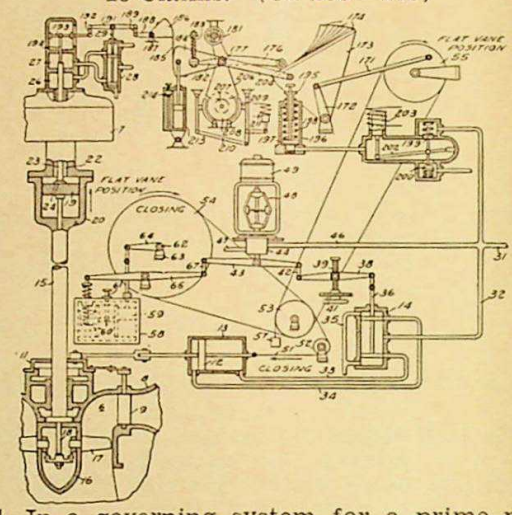


2. A counter-boring bar having a fixed forward end face and an elongated open transverse V-channel, said channel having forward and rear walls, said face and the axis of said channel being slightly inclined to each other and to a plane normal to the axis of said bar, said inclination of said axis of said channel being greater than that of said face, and means including a jaw cooperating with the forward end portion of said bar for clamping an elongated tool in said channel with the cutting portion of said tool similarly inclined and covering and projecting in advance of the foremost part of said face from a point radially inward to a point radially outward relative to the periphery of said bar, whereby said portion may cut metal from a bore of less diameter than said bar to a bore of greater diameter than said bar in one revolution an axial distance substantially greater than the extent to which said portion projects in advance of said foremost part of said face, said jaw having a chamfer facing forward and arranged to receive turnings and cam them forward into the original bore of the work.

2,310,993
LUBRICANT
Carl F. Prutton, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application July 1, 1937, Serial No. 151,484
7 Claims. (Cl. 252—39)

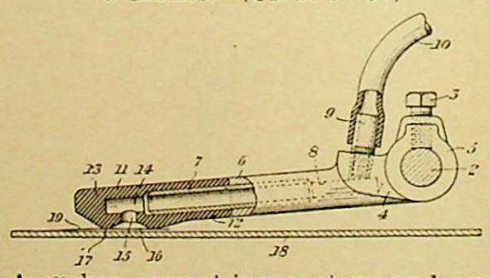
1. A lubricating composition comprising a petroleum lubricating oil, a calcium soap of an aromatic stearic acid, and a separate halogen-bearing organic compound.

2,310,994
GOVERNING SYSTEM
Joseph J. Ring, Wauwatosa, and Beverly R. Nichols, Elm Grove, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Original application February 8, 1940, Serial No. 317,800. Divided and this application October 19, 1940, Serial No. 361,850
15 Claims. (Cl. 253—143)



1. In a governing system for a prime mover having a gate controlling the flow of fluid thereto and having a runner with adjustable vanes, means for operating the gate responsive to the speed of the prime mover, means for adjusting the runner vanes responsive to the movement of the said gate operating means, means for varying the action of said gate operating means on the movement of said runner vane adjusting means, and means for regulating the speed of movement of said gate action varying means.

2,310,995
SHEET HANDLING MECHANISM
Willis Andrew Robinson, Sr., Chattanooga, Tenn., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application January 13, 1941, Serial No. 374,276
7 Claims. (Cl. 294—64)

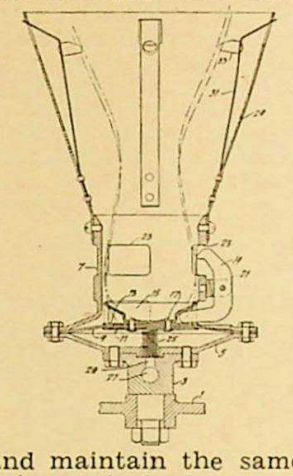


1. A sucker comprising a stem and an elongated rubber sucker foot connected at one end to the stem and having at said end a relatively thin wall and having at its opposite end a head of relatively great wall thickness, the foot having a suction duct therein terminating in said head.

2,310,996
PIN HOLDER FOR BOWLING PIN SETTERS
Rupert E. Rundell, Rockville Centre, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application October 16, 1940, Serial No. 361,371
14 Claims. (Cl. 294—65)

1. In a bowling pin setter, the combination

with an invertible receptacle adapted while in inverted position to admit the handle end of a bowling pin, of a set of leaf springs mounted on said receptacle to engage the butt end of an in-



serted pin and maintain the same in centered position therein, a set of grippers adapted to grip the inserted handle end of a pin, and means for actuating said grippers to grip said pin.

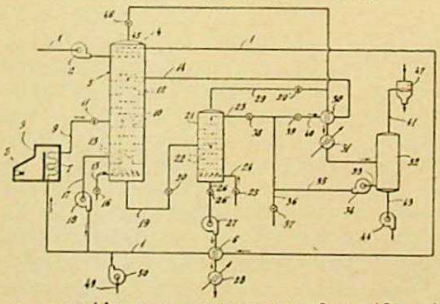
2,310,997

THERMAL TREATMENT OF DRYING OILS

Robert F. Ruthruff, Nutley, N. J.

Application August 26, 1939, Serial No. 292,008

3 Claims. (Cl. 106—252)



1. In a continuous process for the thermal treatment of a siccative oil, the steps including passing said oil through a heating zone wherein said oil is brought to an elevated temperature, passing said heated oil to a primary reaction zone, withdrawing vaporous decomposition products of high volatility from said primary reaction zone through a primary fractionation zone, withdrawing liquid products from said primary reaction zone, passing said liquid products to a secondary reaction zone operating at subatmospheric pressure, withdrawing vaporous decomposition products of low volatility from said secondary reaction zone through a secondary fractionation zone, condensing a portion of said vaporous decomposition products of low volatility and passing them to the primary reaction zone and withdrawing liquid products, comprising the thermally treated product from said secondary reaction zone.

2,310,998

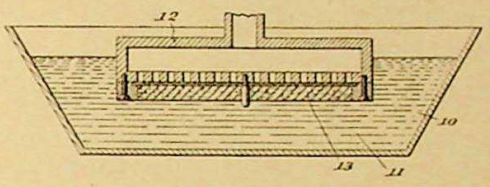
SOUND RECORD AND METHOD OF MAKING THE SAME

Edward E. Sawyer, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, as trustee

Application May 27, 1941, Serial No. 395,418

4 Claims. (Cl. 18—48.5)

1. The method of making a sound record, comprising immersing a foraminous suction forming die in an aqueous pulp mixture containing a substantial amount of comminuted water insoluble uncured synthetic resin and a smaller amount of fibres to form on said die a wet grainless resin-bearing fibrous pulp article in which the particles of resin are enmeshed in the fibrous structure of the article and are physically and chemically unchanged from their original state, removing said article from the forming die and drying it at a temperature insufficient to appreciably change the chemical



composition of the resin, placing the article between a pair of complemental imperforate curing dies, one of which is provided with a stamper having a sound track and one or both of which are supplied with heat sufficient to melt the resin, closing the dies to place sufficient pressure upon the article to compact it to the desired thickness and to force the melted resin into the interstices of the fibrous framework and the sound track of the stamper, and maintaining the heat and pressure until the resin has hardened and a permanent recording of the sound track has been molded in the surface of the record.

2,310,999

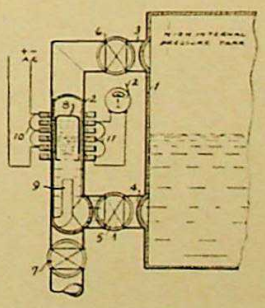
MEANS FOR INDICATING LIQUID LEVELS

Julius Schierenbeck, Heidelberg, Germany; vested in the Alien Property Custodian

Application November 30, 1939, Serial No. 306,811

In Germany December 1, 1938

3 Claims. (Cl. 73—313)



1. A liquid level indicating means for containers having high internal pressure, comprising a container for the high pressure fluid, a vertically disposed indicator tube joined to the container by upper and lower horizontally disposed connecting tubes, valve means disposed in each connecting tube, other valve means disposed in the indicating tube below the level of the lower connecting tube, whereby the various valve means may be manipulated to enable the internal pressure of the container to blow-out and clean the indicator tube at intervals, a hollow bell-shaped float disposed in the indicator tube, low level stop means for the float supported in the lower portion of the tube above the valve means disposed therein, and liquid level indicator means associated with the indicator tube.

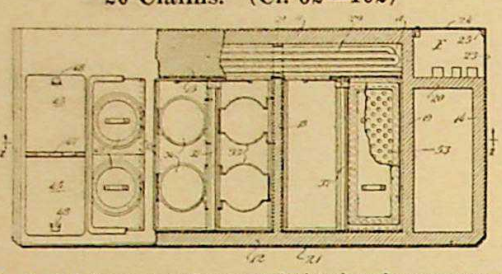
2,311,000

ICE CREAM HARDENING AND DISPENSING CABINET

James T. Smith and Alexander L. Reiter, Chicago, Ill., assignors to Mills Novelty Company, Chicago, Ill., a corporation of Illinois

Application July 10, 1940, Serial No. 344,624

20 Claims. (Cl. 62—102)



1. A refrigerator for conditioning ice cream and the like, comprising a cabinet having a plurality of compartments for the ice cream, a refrigerating compartment in said cabinet extending lengthwise thereof alongside the several ice-cream compartments, a heat exchange element in said refrigerating compartment of such length that portions thereof are disposed opposite each ice-cream compartment, openings providing communication between said refrigerating compartment and each ice-cream compartment, and means for creating forced circulation of air between said single refrigerating compartment and any or all of said ice-cream compartments.

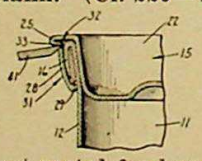
2,311,001

CONTAINER

James A. Stewart, Scarsdale, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application February 24, 1939, Serial No. 258,327

1 Claim. (Cl. 220—48)



A sanitary sheet metal food container adapted to be opened by a rotary cutting tool without contacting the contents, comprising a container body having an end flange, an end closure also having a flange, said flanges being interlocked to produce an end seam for securing said end closure to said body, and a gasket sealing material interposed between said body and end flanges, said end seam comprising five closely contacting layers of metal, the innermost layer consisting of an inner body engaging wall portion of said end closure flange, the outermost layer including a peripheral bead projecting outwardly beyond said end seam at its top edge to set off a peripheral depression beneath said bead in the outer flange section of said seam, said bead confining a gasket material between the inner and outer layers, said outwardly projecting portion of said closure flange providing a pinched rim of double thickness at the top of the seam enclosing and squeezing said gasket and defining an annular track for a rotary cutting tool to follow, said inner engaging wall portion extending downwardly below the said peripheral depression, whereby said end closure may be severed from the body as the cutter edge is guided by the depression and passed through said outermost cover flange wall to enter into the gasket confined between said pinched walls while the container contents are shielded from any cut parts of the severed wall.

2,311,002

MANUFACTURE OF WROUGHT IRON

Edward B. Story, Bethel Township, Allegheny County, Pa., assignor to A. M. Byers Company, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 20, 1941, Serial No. 411,684

1 Claim. (Cl. 75—47)

A method of making wrought iron by the Aston process comprising admixing with molten slag molten refined ferrous material having a carbon content of at least about .03% and below .06% to form a wrought iron sponge ball.

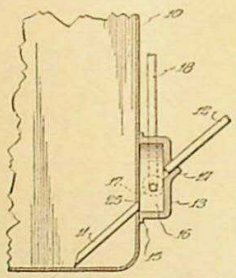
2,311,003

FUEL INDICATOR

Trygve H. Svendsen, Chicago, Ill.

Application July 16, 1940, Serial No. 345,863

17 Claims. (Cl. 158—46.5)



1. The combination of an engine, a fuel tank therefor with a perforation in the lower portion of one of its walls, an internal pipe rising from a point close to the bottom of the tank to meet said wall and communicate with the outside thereof by way of said perforation, a cup-shaped chamber with its rim secured to the outside of said wall and with its lower portion opposite said perforation, a suction pipe leading from the chamber to the engine, an air-supply tube leading to the chamber, and means to control the air-supply tube.

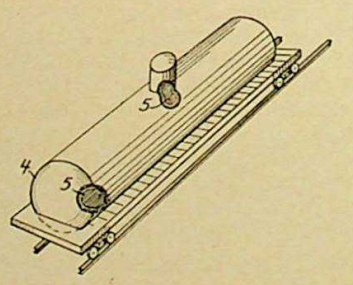
2,311,004

CORROSIONPROOF LINER

Robert M. Thomas, Union, and William J. Sparks, Cranford, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana

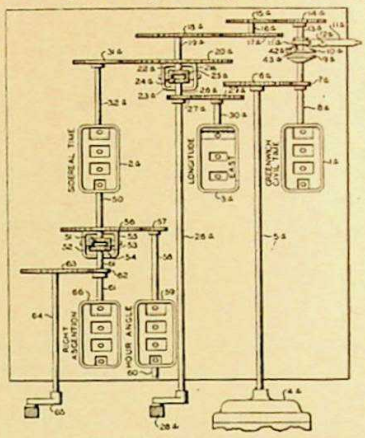
Application February 27, 1942, Serial No. 432,630

11 Claims. (Cl. 220—64)



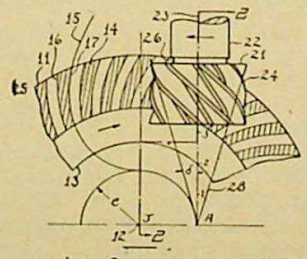
1. A corrosion resistant structure comprising in combination a container member and an integral covering layer comprising a predominately isoolefinic polymer characterized by a molecular weight within the range of 15,000 to 500,000, an iodine number within the range of one and 60, reactivity with curing agents, and when cured a tensile strength within the range of 350 pounds to 4500 pounds per square inch, in cured condition.

2,311,005
NAVIGATION COMPUTER
Thomas L. Thurlow and Samuel M. Burka, Dayton, Ohio
Application July 31, 1940, Serial No. 348,968
1 Claim. (Cl. 235—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



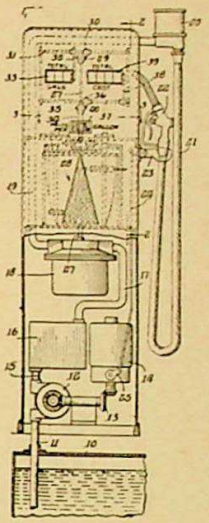
An instrument for determining longitude from Greenwich civil time and local sidereal time, comprising a first counter for indicating Greenwich civil time, input means for operating said first counter, a second counter for indicating sidereal time, gear means including a differential for drivingly connecting said two counters in a ratio relationship of civil time to sidereal time, a third counter for indicating longitude, input means for operating said third counter, gear means including said differential for independently drivingly connecting said second and third mentioned counters in a ratio relationship of sidereal time to longitude, whereby operation of said input means for said first counter to indicate thereon Greenwich civil time obtained from a chronometer results in an indication on said second counter of the corresponding Greenwich sidereal time, and operation of said input means for said third counter to change the reading on said second counter from Greenwich sidereal time to local sidereal time obtained from astronomical observations, results in an indication of local longitude on said third counter.

2,311,006
SPIRAL GEARING AND GEAR TEETH
Nikola Trbojevich, Toledo, Ohio
Application July 31, 1941, Serial No. 404,882
8 Claims. (Cl. 74—466)



1. A mating pair of gears consisting of a rotatable cylindrical pinion having a plurality of helical teeth of a constant cross section throughout their length, and a rotatable spiral gear having a plurality of longitudinally curved teeth of ever increasing radii of curvature and a variable cross section throughout their lengths, in which the teeth of both members have transverse axes which are inclined at predetermined acute angles relative to the corresponding axes of rotation for the purpose of increasing their relative divergence from each other.

2,311,007
LIQUID DISPENSING APPARATUS
Richard R. Trexler, Evanston, Ill.
Application December 19, 1938, Serial No. 246,544
3 Claims. (Cl. 221—95)



1. A liquid dispensing apparatus having provisions for measuring liquid and calculating the cost thereof in increments of one-tenth of a cent over a price range exceeding a differential of ten cents, said apparatus comprising a meter operated in accordance with the amount of liquid dispensed, a cost register driven by the meter, and change speed gearing mechanism interposed in the driving connections between the meter and the cost register, said change speed gearing having a bank of cone gears of continuously increasing size from one end to the other thereof and only two take-off gears adapted for cooperation therewith.

2,311,008
PROCESS AND COMPOSITION FOR SOFTENING HARD WATER
Nathaniel Beverley Tucker, Glendale, Ohio, assignor to The Procter & Gamble Company, Ivorydale, Ohio, a corporation of Ohio
No Drawing. Application June 12, 1939, Serial No. 278,754
20 Claims. (Cl. 210—23)

1. The process of softening hard water without causing a precipitate, which comprises adding to said water a water-soluble salt derived from a polyglycollic acid ether of an aliphatic polyhydroxy substance selected from the group consisting of carbohydrates, polyhydric alcohols and polyhydroxy carboxylic acids, and a base selected from the group consisting of alkali-metal bases, ammonia, and organic nitrogen bases, said polyglycollic acid ether containing at least three carboxyl groups per molecule.

5. A detergent composition for sudsing and washing in hard water comprising a water soluble detergent soap and a builder substantially devoid of detergent properties but capable of improving the efficiency of soap in hard water and capable of softening water without causing a precipitate, said builder comprising a water soluble salt derived from a polyglycollic acid ether of an aliphatic polyhydroxy substance selected from the group consisting of carbohydrates, polyhydric alcohols and polyhydroxy carboxylic acids, and a base selected from the group consisting of alkali-metal bases, ammonia, and organic nitrogen bases, said polyglycollic acid ether containing at least three carboxyl groups per molecule, the pH

value of said salt in solution being sufficiently great to prevent the precipitation of acid soap when used in conjunction with a soap detergent in solution.

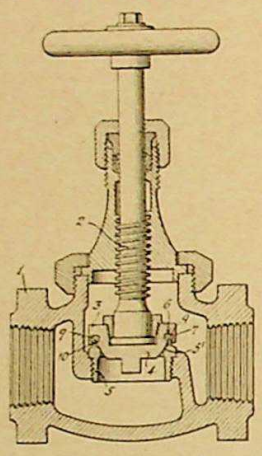
2,311,009

DOUBLE SEATED VALVE

Kenneth M. Urquhart, New York, N. Y.

Application April 18, 1938, Serial No. 202,612

2 Claims. (Cl. 251—27)



1. The combination in a valve structure of a metal seat for the valve, a packing member, means for engaging said seat with the packing member, means for applying pressure to the packing member for distorting the same against the valve seat, means for limiting said distortion of said packing member and means for applying pressure to restore the packing member substantially to its original shape when the valve is opened.

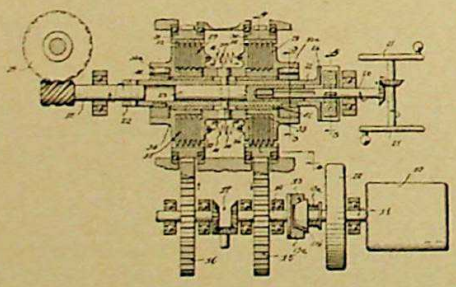
2,311,010

MECHANICAL CLUTCH FOLLOW-UP DEVICE

Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan

Application August 5, 1939, Serial No. 288,495

6 Claims. (Cl. 74—388)



1. In a follow-up device, an operating member, a constantly operated power means, oppositely rotating means driven by said power means, clutch means arranged to connect one or the other of said oppositely rotating means to said operating member, and means to cause engagement of one or the other of said clutch means comprising a control shaft, a second shaft operably connected to said operating member, means connecting said control shaft and said second shaft whereby a relative rotation will result in an axial movement between said shafts, clutch engaging means, and means operably connecting said second shaft with said clutch engaging means whereby relative slidable movement between said shafts will result in engagement of one of said clutches.

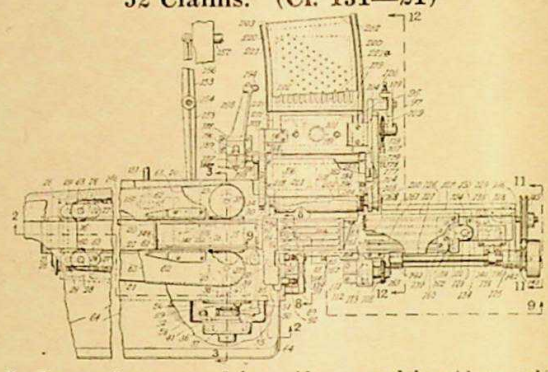
2,311,011

CIGAR MACHINE LONG-FILLER FEED

Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application November 14, 1939, Serial No. 304,299

52 Claims. (Cl. 131—21)



1. In a cigar machine, the combination with a vertically movable platform, of means for intermittently advancing a continuous stream of tobacco on to said platform, cutters coacting to sever from the remainder of the filler stream the section of the filler stream advanced on to said platform, a measuring pocket overlying said platform, mechanism for raising said platform to elevate the severed tobacco section into said measuring pocket and thereby fill said pocket with a charge of tobacco and compact the same therein, and a device for separating the charge filling said pocket from the remainder of the compacted tobacco in the section.

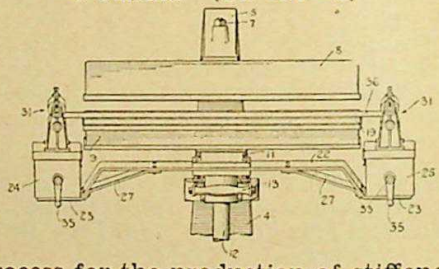
2,311,012

METHOD OF PREPARING STIFFENED FABRICS

William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

Application September 26, 1939, Serial No. 296,575

4 Claims. (Cl. 154—2)



1. Process for the production of stiffened fabrics, which comprises superposing an assembly of fabrics, comprising two woven cellulosic fabrics with an intermediate layer of fabric containing a cellulose derivative having a plasticizer incorporated therewith, on a damp surface with the layer of fabric to be unexposed in the finished article in contact with said damp surface, and then applying heat and pressure to the assembly whereby lamination and stiffening of the fabrics are effected.

2,311,013

APPARATUS FOR PREPARING STIFFENED FABRICS

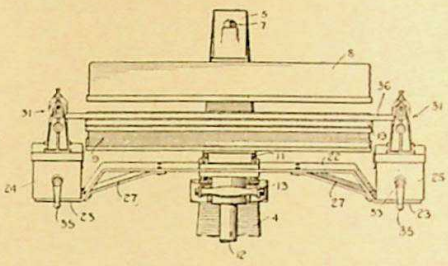
William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

Original application September 26, 1939, Serial No. 296,575. Divided and this application November 5, 1940, Serial No. 364,414

1 Claim. (Cl. 154—1)

In a device for the production of laminated

fabric by uniting fabric layers, a pressing head, a buck movable relative to said pressing head, said pressing head and said buck being adapted to cooperate to apply pressure upon an article placed therebetween, and means movable with said buck for supplying a length of moistened fabric between the surfaces of said pressing head and said buck, the latter means comprising a



chamber at each end of said buck and adapted to contain water, a roller rotatably carried in each of said chambers, pressure rollers carried by said chambers, a length of fabric adapted to pass through said pressure rollers and to be wound on said rotatable rollers and means for drawing the cloth from one chamber and winding it into the form of a roll in the other of said chambers.

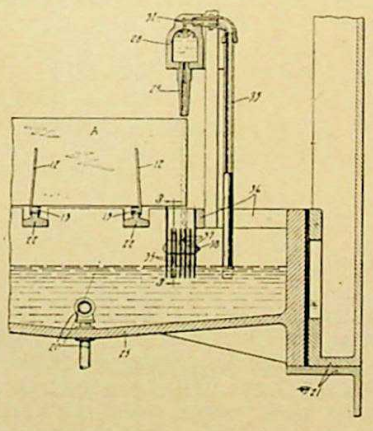
2,311,014

SHEET TREATING MACHINE

Custis S. Woolford, South Orange, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 5, 1941, Serial No. 421,854

5 Claims. (Cl. 266—7)



1. In a machine for treating metallic sheets, the combination of a drip tank containing a liquid deoxidizing medium, a conveyor movable across said drip tank for carrying sheets to be treated along a predetermined path of travel, a nozzle disposed adjacent the path of travel of said sheets for playing a stream of the deoxidizing medium onto a predetermined portion of said moving sheets, means for freeing air entrained in the deoxidizing medium so that the medium will flow in a smooth gentle stream across the sheets without splashing onto portions of the sheet not to be treated, and a plurality of spaced and parallel grid plates disposed in said drip tank and in alignment with the deoxidizing medium flowing off said sheets to carry the used medium gently down into the drip tank without splashing portions of the sheet not to be treated.

2,311,015

METHOD OF PRODUCING DYE IMAGES

Richard V. Young and George Ehrenfried, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 23, 1941, Serial No. 411,970

8 Claims. (Cl. 95—6)

1. The method of forming a colored image in a photographic layer containing a bleachable polyazo dye uniformly dispersed therein and a silver image, which comprises treating the layer in a dilute solution of a strong acid, and then bleaching the dye in the region of the silver image in an alkaline stannous chloride bleach bath.

2,311,016

PHOTOGRAPHIC MATERIAL AND METHOD OF PRODUCING SAME

Roelof Jan Hendrik Alink, Jan Hendrik de Boer, Klaas Hinderikus Klaassens, and Cornelis Frederik Veenemans, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

No Drawing. Application December 19, 1934, Serial No. 758,334. In the Netherlands January 19, 1934

2 Claims. (Cl. 95—6)

1. In the method of producing from a diazonium compound component and a dyestuff-component capable of forming a dyestuff in the presence of moisture a light-sensitive layer of the type in which image development is effected after exposure merely by the action of moisture and without the removal or addition of any chemical substance, the steps of applying a solution of a diazonium compound to a carrier, drying the carrier, exposing the carrier to photochemically decompose the diazonium compound and to form evenly over the surface of the carrier the dyestuff-component, applying the diazonium compound component in its powdery form to the carrier, and maintaining during and subsequent to the application of the diazonium component a degree of dryness sufficient to prevent appreciable formation of dyestuff.

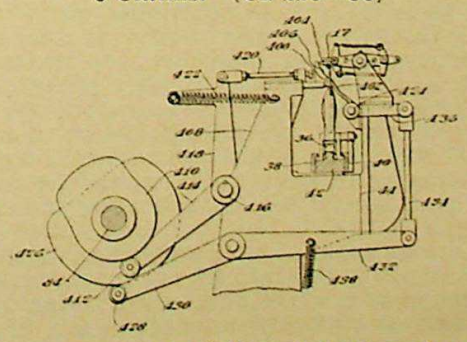
2,311,017

ENVELOPE MACHINE

Gustaf W. Anderson, North Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Original application December 5, 1936, Serial No. 114,422. Divided and this application January 10, 1940, Serial No. 313,186

6 Claims. (Cl. 226—56)



1. In a machine of the character described, means for closing the flap of a filled envelope comprising a pair of clamping members posi-

tioned to grasp the envelope along the line to be creased, and means cooperating with said clamping members for folding and creasing said flap including a rotatable arm, a second arm pivotally and yieldingly mounted in said rotatable arm and a roller carried by said second arm arranged to engage said clamping members to perform the folding and creasing operation.

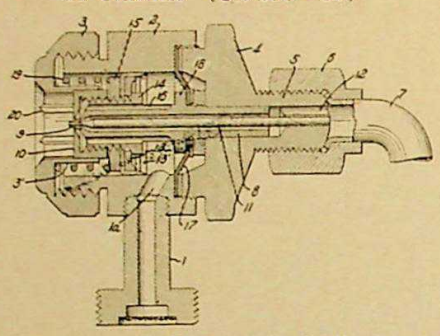
2,311,018

ATOMIZER

Agnew H. Bahnson, Jr., Winston-Salem, N. C., assignor to The Bahnson Company, Winston-Salem, N. C., a corporation of North Carolina

Application January 8, 1941, Serial No. 373,651

11 Claims. (Cl. 299—59)



1. An atomizer of the type including a stationary cleaning rod, a liquid conduit member terminating in a nozzle longitudinally slidable over said cleaning rod to clean said nozzle, and a nozzle cap cooperating with said nozzle to form an annular air orifice, characterized by the fact that said nozzle cap is provided with an opening surrounding said nozzle and is threaded upon said conduit member for movement axially thereof to change the position of said nozzle with respect to said opening and thereby to vary the size of said annular air orifice and to clean the same.

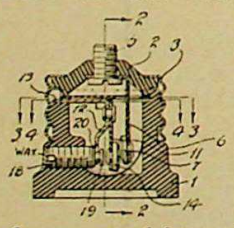
2,311,019

COMBINATION FUSE AND CIRCUIT BREAKER

Richard A. Bayne, Detroit, Mich.

Application April 15, 1940, Serial No. 329,665

7 Claims. (Cl. 200—130)



1. A plug type fuse comprising a hollow housing of electrically non-conducting material, a metallic contact in a wall of said housing having portions located interiorly and exteriorly thereof, a second metallic contact mounted on the outside of the housing spaced from the first mentioned contact, two metallic strips mounted adjacent their ends within and adjacent one end of the housing in spaced relation and extending toward the opposite end of the housing with their free ends normally touching each other and spaced from the interior wall of said housing, one of said strips consisting of thermostatic laminated metal and constituting an electrical resistor, electrical connections between one of said contacts and one of said strips and between the other of said contacts and the other of said strips whereby the said contacts and strips are normally connected electrically in series, the said fuse being adapted for connection in an electrical circuit whereby when a predetermined amperage flows through the laminated metallic resistor it will flex away from the other strip to break the electrical circuit.

2,311,020

METHOD OF DISPERSING COLORING MATERIALS IN WATER SWELLABLE COLLOIDS

David E. Bennett, Jr., and Scheuring S. Fierke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 26, 1940, Serial No. 371,776. In Great Britain December 29, 1939

12 Claims. (Cl. 95—7)

1. The method of dispersing a coloring material in a water-swellable photographic colloid which comprises dissolving the coloring material and a water-insoluble colloid in a common solvent which is a non-solvent for the water-swellable colloid, emulsifying the solution in an aqueous solution of a dispersing agent, removing the solvent from the emulsion by evaporation while the particles of coloring material and water-insoluble colloid are in a dispersed form and suspending the coloring material and water-insoluble colloid in finely divided form in the water-swellable colloid.

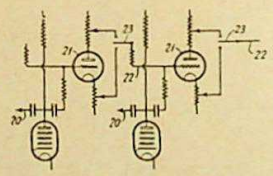
2,311,021

MULTIPLEX RECEIVING SYSTEM

Alan Dower Blumlein, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a British company

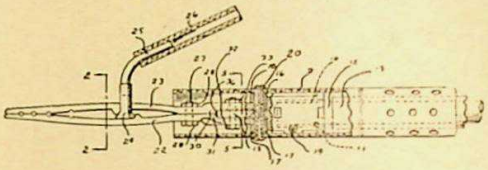
Original application November 6, 1936, Serial No. 109,456. Divided and this application July 19, 1939, Serial No. 285,276. In Great Britain November 14, 1935

4 Claims. (Cl. 179—15)



1. In a multiplex system which is receptive of a succession of trains of elementary signals, each elementary signal being appropriate to a different channel, and there being a group of channels appropriate to each train, said elementary signals being restricted to a predetermined amplitude range and being interspersed with synchronizing signals the amplitude of which exceeds said range, a plurality of receiving circuits each appropriate to a different multiplex channel, a channel distributor comprising a cathode ray tube having a mosaic of target electrodes each connected to an appropriate one of said receiving circuits, means responsive to said synchronizing signals when they possess one given characteristic for causing said channel distributor to switch successive elementary signals into different ones of said receiving circuits in turn, and means responsive to said synchronizing signals when they possess another characteristic for causing said channel distributor to switch successive trains of elementary signals into different groups of said receiving circuits which are respectively appropriate to different ones of said groups of channels.

2,311,022
ELECTRODE HOLDER
Philip Bourque, Detroit, Mich., assignor to Bordon Mfg. Co., Inc., Detroit, Mich., a corporation of Michigan
Application March 3, 1942, Serial No. 433,147
10 Claims. (Cl. 219—8)

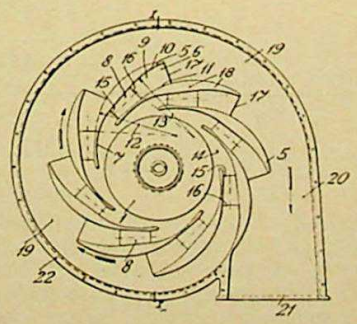


1. In an electrode holder of the class described, a shank-forming member adapted for electrical connection to an electric conductor; a supporting member on the forward end of said shank-forming portion; a pair of gripping members arranged in superimposed relation and embracing, at their butt ends, said supporting member and proceeding outwardly beyond the end of said supporting member and thence inwardly offset toward each other, forwardly of the forward end of said supporting member and normally divergent of each other forwardly of said offset.

2,311,023
CHLOROHYDRIN OF UNSATURATED ALCOHOL
Benjamin T. Brooks, Old Greenwich, Conn., assignor to Standard Alcohol Company
No Drawing. Application December 16, 1939, Serial No. 309,578
2 Claims. (Cl. 260—633)

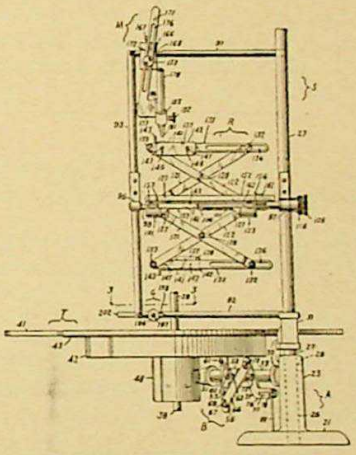
1. The method of making a chlorohydrin which consists in dissolving a mono-unsaturated alcohol in water, adding stoichiometrical proportions of sodium carbonate based upon the hydrochloric acid to be generated during the process, cooling the solution to between 10°–20° C., passing chlorine gas into the solution while maintaining the temperature of the reaction mixture at between 10°–20° C. until all of the unsaturated alcohol has reacted as is shown by the cessation of carbon dioxide effervescence and recovering the chlorohydrin.

2,311,024
GUIDE APPARATUS FOR CENTRIFUGAL BLOWERS AND PUMPS
Alfred Büchi, Winterthur, Switzerland
Application May 27, 1941, Serial No. 395,480
In Switzerland March 8, 1941
20 Claims. (Cl. 103—111)



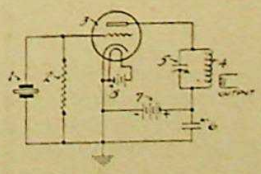
15. In a centrifugal blower or pump, the combination of a single-acting rotor, guide apparatus surrounding said rotor and providing a cylindrical chamber for receiving pressure fluid discharged from said rotor, said guide apparatus having a plurality of straight walled outwardly flaring passages therethrough, and a casing located outwardly of said guide apparatus for collecting the fluid from the outer portions of said passages, said casing having an outlet at one end and merging with its other end with the larger end of one of said straight walled guide passages adjacent said outlet, said guide apparatus being sectioned in two equal halves along a plane extending transversely to the axis of said rotor and medially through said rotor, said apparatus and said casing, each half forming a single piece comprising a section of each of said fluid guide apparatus, said sections being truly symmetrical thereby concurrently unidirectionally delivering said fluid from said receiving chamber into said collector casing in a balanced flow relative to said plane.

2,311,025
MEASURING AND MARKING DEVICE
Charles F. Burgner, Reading, Pa.
Application October 19, 1940, Serial No. 361,978
11 Claims. (Cl. 33—129)



1. In textile fabric measuring and marking apparatus, means for measuring sections of material according to elements with which the sections are to be assembled including a rotatable structure having fabric traction portions peripherally spaced thereabout, means for simultaneously adjusting the radial positions of said fabric traction portions, means for marking the sections to indicate the positions thereof with respect to the elements, and means operative independently of said simultaneous adjusting means for adjusting one or more of said fabric traction portions to cause said marking means to mark the sections.

2,311,026
CRYSTAL STABILIZED FREQUENCY MODULATION SYSTEM
Nathaniel Bishop, Fairfield, Conn.
Application April 24, 1941, Serial No. 390,135
1 Claim. (Cl. 179—171.5)



A frequency modulation system comprising a piezo electric crystal stabilized oscillator having an input circuit including a piezo electric crystal and a tuned output circuit, means for regeneratively coupling said input and output circuits comprising a connection from said tuned output circuit to said input circuit, said connection in-

cluding the piezo electric crystal in series, whereby the excitation voltage applied to said input circuit consists of the sum of the voltage across the crystal and the voltage derived regeneratively from the tuned circuit, a reactance tube modulator coupled to the tuned output circuit, and means for applying modulating potentials to said reactance tube.

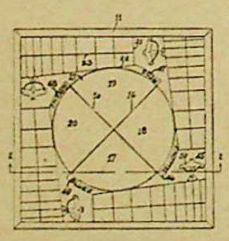
2,311,027
TEXTILE TREATMENT
William J. Burke, Robert W. Maxwell, and Paul S. Pinkney, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 8, 1940, Serial No. 364,850
14 Claims. (Cl. 8—115.5)

1. In a process for reacing a textile material with formaldehyde, the steps comprising impregnating said material with an aqueous solution of formaldehyde and an acid reacting catalyst, drying said impregnated material, and heating the same to reaction temperature by immersion in a hot organic liquid bath which is basic in reaction.

2,311,028
ELECTRIC HEATING ELEMENT
Jack Chambers Chaston, Wembley, Middlesex, England
No Drawing. Application December 27, 1940, Serial No. 372,015. In Great Britain December 20, 1939
4 Claims. (Cl. 201—76)

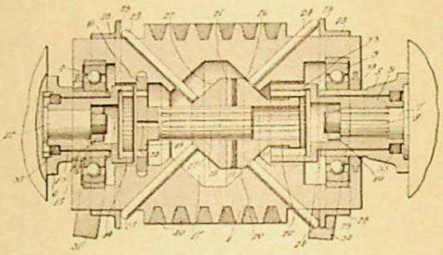
1. An electric furnace resistor having a low temperature coefficient of resistance comprising a platinum-ruthenium wire containing from 1 to 20% of ruthenium.

2,311,029
GAME
Charles E. Cole, Portland, Oreg.
Application May 16, 1942, Serial No. 443,250
1 Claim. (Cl. 273—126)



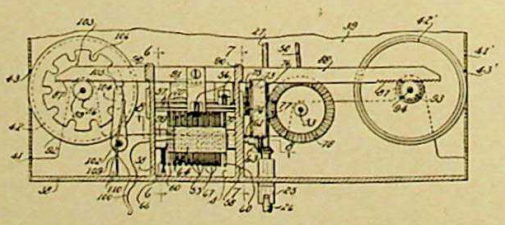
A game of the class described consisting of a board being arranged for a plurality of players, the position of each player including a plurality of illustrated areas of different sizes and shapes, each of said areas bearing a graphic illustration of a military objective and identifying number, each of said areas having removable cardboard covers made therefor, and shaped to correspond with the areas, the top side thereof being black and having associated therewith a plurality of bombs, an elongated playing surface at the disposal of each player, said surface having subdivisions identified to correspond with said graphically illustrated areas, the particular area being selected by means of a playing piece, the players graphically illustrated area corresponding therewith being blacked out by its cover while the corresponding illustrated area of an opponent having placed thereon one of the bombs.

2,311,030
POWER TAKE-OFF
Kibbey Whitman Couse, Newark, N. J.
Application February 13, 1942, Serial No. 430,760
10 Claims. (Cl. 74—11)



1. A power take-off including an outer generally cylindrically formed hollow casing having an outer portion adapted to receive means for transmitting power from the casing, support means including bearings for each end of the casing, a driving member entering the casing through the support means at one end and having clutch teeth on its inner end, a driven member entering the casing through the support means at the other end of the casing and having clutch teeth on its inner end, transmission means located within the hollow portion of the casing and comprising a splined shaft slidably carrying a member thereon, with means for securing this member in a desired longitudinal position on the shaft, this member having clutch teeth at one end in mesh with the teeth on the end of the driving member, a gear type clutch fixedly carried by the casing on its interior portion adjacent the inner end of the driven member, clutch teeth on the end of the splined shaft and adapted in one position of operation to mesh with the gear type clutch carried by the casing and also with the clutch teeth on the driven member in another position of operation, and means for shifting the said transmission longitudinally within the casing to shift the power coming from the driving member from the casing to the driven member and vice versa.

2,311,031
CHANGE SPEED GEARING
Warren H. De Lancey, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application December 8, 1941, Serial No. 422,031
13 Claims. (Cl. 74—283)



1. A speed changing gear transmission, adapted to determine the speed ratio between the two driving shafts of two counter mechanisms and having in combination the two driving shafts, a plurality of gears all of the same size mounted side by side on a common axis, means for driving all of said gears from one of said shafts but at different speeds, a plurality of pinions each selectively engageable with said gears, means for moving each pinion in a straight line path parallel to said axis to effect the selective engagement, means for bodily moving said gears in a

substantially radial path of constant extent to unmesh the pinions from the selected gears at the start of the selective movement of said pinions and to remesh the pinions with other selected gears at the end of such movement, and connections between each pinion and the other of said shafts.

2,311,032

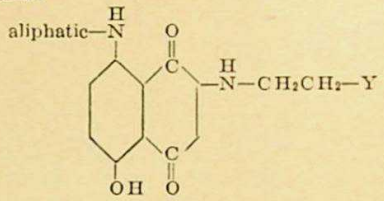
8-AMINO-5-HYDROXY-2-SULPHOETHYLAMINO 1,4-NAPHTHOQUINONE

Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 2, 1940, Serial No. 317,008

2 Claims. (Cl. 260—396)

1. A 1,4-naphthoquinone compound having the formula:



wherein Y stands for a sulphonic acid group.

2,311,033

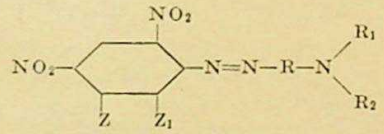
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH

Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 4, 1941, Serial No. 396,571

11 Claims. (Cl. 260—205)

1. The azo dye compounds having the general formula:



wherein Z and Z_1 each represent halogen, R represents the residue of a member selected from the group consisting of a benzene and a naphthalene nucleus and R_1 and R_2 each represent a member selected from the group consisting of hydrogen, an alkyl group, a cycloalkyl group, a benzene nucleus and an unsaturated short chain aliphatic hydrocarbon group whose unsaturation consists of a double bond.

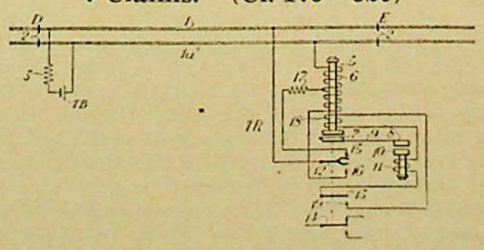
2,311,034

RAILWAY TRACK CIRCUIT APPARATUS

Arthur E. Dodd, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application May 31, 1941, Serial No. 395,925

7 Claims. (Cl. 175—320)



1. In combination, a magnetizable core, armature means disposed in magnetic relation to said core and provided with contacts including a make-before-break contact combination comprising a front contact and a back contact with a bridging member which causes both said contacts to become closed momentarily during the movement of said armature means from its released to its attracted position, an operating winding disposed on said core and effective when energized to actuate said armature means from its released to its picked-up position, a control circuit connected to a portion only of said operating winding over said front contact and to the entire operating winding over said back contact, a retaining winding disposed to be effective when energized to oppose the attractive action of said operating winding on said armature means, and a condenser connected in series with said retaining winding across said control circuit in multiple with said operating winding.

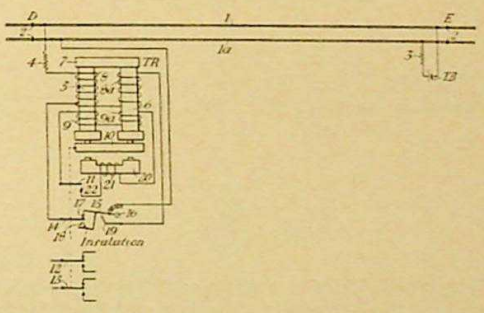
2,311,035

ELECTRICAL RELAY

Robert M. Gilson, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application May 17, 1940, Serial No. 335,781

9 Claims. (Cl. 175—320)



1. In combination, a magnetizable core, an operating winding disposed on said core, an armature disposed in magnetic relation to said core and provided with contacts including a make-before-break contact combination comprising a front contact and a back contact with a bridging member which causes both said contacts to become closed momentarily during the movement of said armature from its released to its attracted position, a control circuit connected over said front contact to a portion only of said operating winding and connected over said back contact to the entire operating winding, a retaining winding disposed to retain said armature in its released position in opposition to the attractive action of said operating winding on said armature, and a secondary winding disposed on said core and connected to said retaining winding through an asymmetrical unit poled in such manner as to permit only the flow of current caused to be induced in said secondary winding due to a growth of flux in said core.

2,311,036

ENGINE BREATHER AND VENTILATING SYSTEM

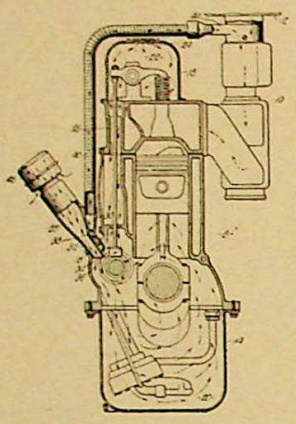
Adolph C. Dressler, Miami, Okla., assignor, by mesne assignments, to Dick Wills

Application May 27, 1940, Serial No. 337,409

3 Claims. (Cl. 121—194)

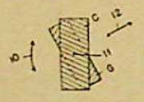
3. In an engine breather and ventilating system, a unitary structure comprising a hollow body adapted to have one end inserted into the breather opening of the engine, a hollow extension adjacent the body projecting laterally outwardly from the side thereof and having one end

terminating in spaced relation from said one end of the body and within the breather opening at the top thereof, and a series of upwardly and inwardly inclined baffles in the hollow extension arranged to present a serpentine path along a



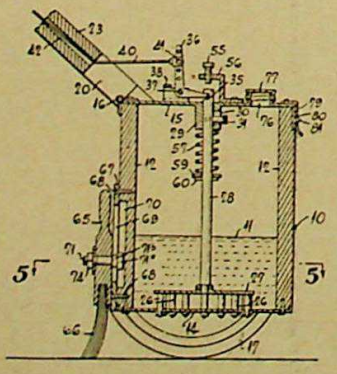
portion of the length of the extension, and means for reducing air pressure within the extension whereby gases at the top of the breather opening are drawn outwardly through the extension.

2,311,037
GEAR FINISHING
Robert S. Drummond, Detroit, Mich.
Application January 22, 1940, Serial No. 315,106
9 Claims. (Cl. 90—1.6)



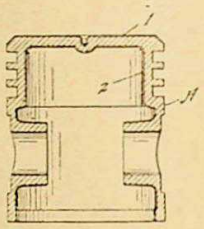
1. The method of crowning gears which comprises meshing a gear member to be crowned with a gear-like cutting member with their axes crossed at an angle less than 30° so that the common normal to their axes is centrally located with respect to said gear; rotating one of said members about its axis, thereby driving the other member, and relatively oscillating said members about said common normal to said axes.

2,311,038
STRIPING APPARATUS
Crayon C. Efird and William L. Marshall, Albemarle, N. C.
Application May 21, 1941, Serial No. 394,442
3 Claims. (Cl. 91—12)



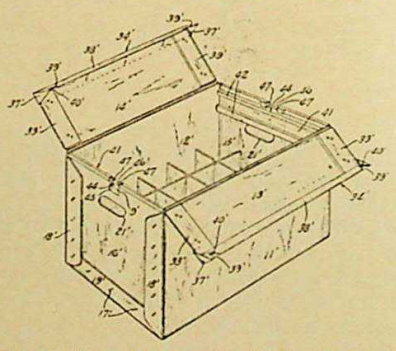
3. Apparatus for painting stripes on pavements comprising a wheeled frame, a paint container on the frame and having a plurality of openings in the bottom thereof, a plate having a plurality of tapered plungers fitting into said orifices, a shaft secured to said plate, a bearing for the shaft, a spring disposed around the shaft for normally forcing the plate downwardly to close the orifices, means for moving the plate upwardly, adjustable means for limiting the upward movement of the plate, and a brush on the rear of the frame for spreading the paint on the pavement as the frame moves forwardly.

2,311,039
INTERNAL COMBUSTION MOTOR AND METHOD OF CONSTRUCTING
Frederic H. Emery, Bedford, Ohio
Application June 8, 1940, Serial No. 339,549
4 Claims. (Cl. 123—191)



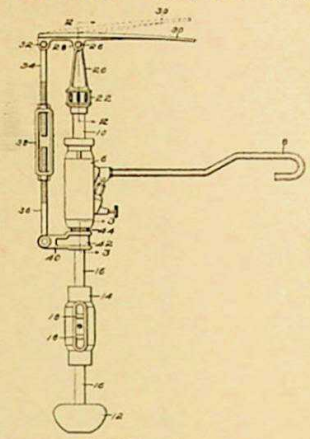
1. The method of treating a ferrous metal part of the combustion chamber of an internal combustion motor, which consists in the application of a heat transfer coating of a vitreous enamel to the part, said vitreous enamel containing cobalt for substantially permanently and integrally bonding itself to the surface of the part to which it is applied.

2,311,040
CONTAINER
Charles W. Evert and Arthur W. Werner, Milwaukee, Wis., assignors to Downing Box Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 9, 1941, Serial No. 387,640
11 Claims. (Cl. 229—23)



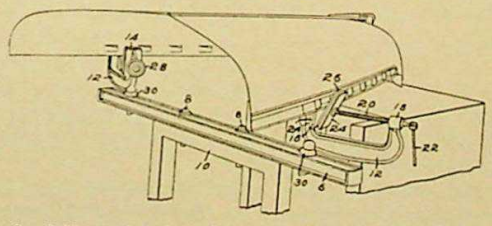
1. In a container formed of fiberboard or the like, reinforcing means of rigid material extending along the upper edges of oppositely disposed walls, cover members foldable toward each other from two other walls of the container, a reinforcement on the free edge of each cover member, there being recesses adjacent the ends of said cover reinforcements in the lower edges thereof, said recesses terminating short of the ends of said cover reinforcements and being of a length to snugly receive the thickness of the upper edge reinforcements when the cover members are closed to brace the container, and cooperating snap latches on the cover reinforcements and on the upper edge reinforcements engageable in response to downward pressure on the cover member, said latches positioned to be in engagement only when the cover reinforcement recesses are in bracing engagement with the upper edge reinforcements.

2,311,041
APPLIANCE FOR WORKING ON AUTOMOBILE BODY PANELS
William H. Ferguson, Flint, Mich.
Application August 2, 1940, Serial No. 349,895
5 Claims. (Cl. 153—32)



1. An instrumentality for reshaping automobile panels comprising a spoon member having a pivotal mounting providing for attachment to a movable member of a jack and defining an overhanging portion for entry within the interior structure of an automobile body, at least the distal part of said portion being contoured as a panel reforming tool, and a connection extending from said member at a location remote from the end and from said pivotal mounting providing for anchorage to a relatively stationary member of the jack and including a screw device for adjusting the length of the connection, which device has an operating portion exposed rearwardly of the spoon for grasp by the hand.

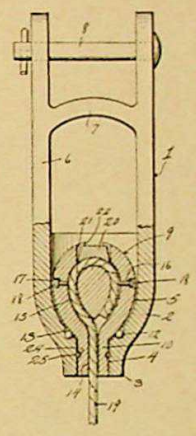
2,311,042
HOLDING DEVICE FOR AUTOMOBILE BODY PARTS
William H. Ferguson, Flint, Mich.
Application August 2, 1940, Serial No. 349,896
5 Claims. (Cl. 29—89)



1. A holding device for use in cooperation with a longitudinally slotted rigid beam to provide for the positioning of automobile body parts for pushing or pulling operations thereon comprising a clamp with a body of the C type having feet at its base and back, which feet have flat soles in relatively angularly disposed planes adapted to rest on the face of such a beam spanning the slot therein to resist tipping of the body in selected orientation to the length of the slot, the feet having threaded sockets adapted to receive a clamping bolt extended through the slot.

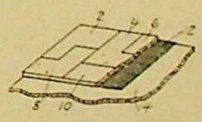
2,311,043
ROPE SWIVEL AND CLAMP
Joseph R. Furey, Avonmore, Pa.
Application November 4, 1941, Serial No. 417,838
4 Claims. (Cl. 24—123)

3. A rope gripper and swivel comprising, a body having an end formed to provide a cup-like socket having a curved axially tapering inner wall surface and terminating at the narrower end in a neck-like extension having an axial passage opening into the socket, a substantially pear-shaped gripper adapted to position within said socket and having an integral stem extending from the tapered end thereof, said stem being designed to snugly position within said neck passage,



said stem and body integral therewith having a rope end receiving passage, means for securing the rope end in said last passage, and a retaining member secured across the top of said socket above the pear-shaped member for maintaining the latter member against undesired axial movement in the socket.

2,311,044
METHOD OF PRODUCING LINOLEUM PRODUCTS
Fred W. Gans, Trenton, N. J., assignor to Sloane-Blabon, Trenton, N. J., a corporation of New Jersey
Original application March 8, 1941, Serial No. 382,444. Divided and this application September 4, 1941, Serial No. 409,454
16 Claims. (Cl. 154—26)

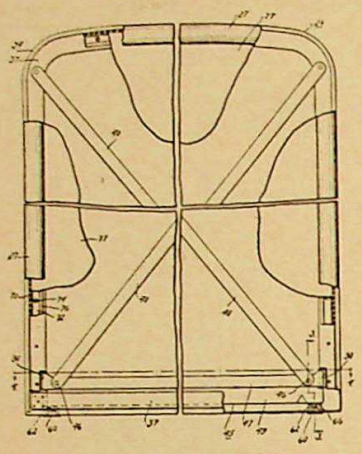


1. A method of producing linoleum products which comprises the steps of securing uncured linoleum to a web of reinforcing material, severing said web into lengths and thereafter securing the resultant lengths of composite product in parallel relation to a layer of backing material.

2,311,045
REFRIGERATING APPARATUS
Martin J. Goulooze, Grand Rapids, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application August 1, 1941, Serial No. 405,069
1 Claim. (Cl. 20—35)

A door of the class described comprising inner and outer panels with heat insulation therebetween, said outer panel formed of relatively flexible sheet metal having sides, a frame member secured to said sides to stiffen said panel, a member having its ends guided by said frame member in longitudinal movement therewith, straps extending diagonally across said outer panel each having an end affixed to said frame member and their opposite ends to said member, means extending through a side of said outer

panel for adjusting movement of said member in tightening said straps and further stiffening said



outer panel against flexure, and means for holding said member in fixed position.

2,311,046

MANUFACTURE OF AROMATIC ISOCYANATES

Richard Greenhalgh and Henry Alfred Piggott, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application October 12, 1937, Serial No. 168,668. In Great Britain October 14, 1936

1 Claim. (Cl. 260—453)

p-Carbododecyloxyphenyl isocyanate.

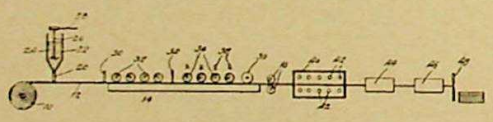
2,311,047

LITHOGRAPHIC PLATE AND PROCESS OF MAKING THE SAME

William T. Hagelin, Chicago, Ill.

Application December 6, 1940, Serial No. 368,753

15 Claims. (Cl. 41—41.5)



1. A process of preparing a lithographic plate which comprises imparting a grain to one surface of a metal sheet, treating said surface with a mixture of an alkali earth metal oxide, silica and water, washing said mixture therefrom, and drying the resulting product, whereby said surface has been rendered strongly receptive to impressed greasy markings.

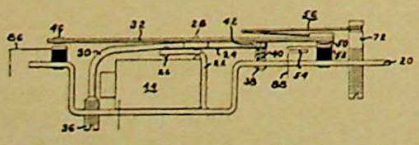
2,311,048

ELECTRIC SWITCH

Marshall C. Harrold, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application December 31, 1940, Serial No. 372,527

13 Claims. (Cl. 200—88)



1. In combination, a supporting means, a flexible strip anchored at one point to said supporting means and extending in cantilever fashion therefrom to provide a movable extension, spring means having a first portion rigidly connected to said extension and extending therefrom in a direction substantially parallel to the strip to a first point adjacent the anchorage of the strip and a second portion extending from said first point to a second point adjacent the rigid connection, and means connected to the spring means for holding the flexible strip in tension.

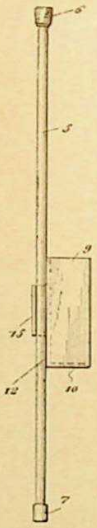
2,311,049

ARTICLE CARRYING ATTACHMENT FOR CRUTCHES

Henry G. Hedden, Bay Pines, Fla.

Application February 19, 1942, Serial No. 431,574

3 Claims. (Cl. 135—49)



3. An article carrying attachment for crutches comprising a box-like receptacle open at its top and including a rear wall, a wedge-shaped attaching member secured to said rear wall and provided with downwardly converging side edges adapted to fit between and frictionally engage the spaced rods of a crutch staff, and downwardly tapered retaining flanges formed on said attaching member and overhanging the converging edges thereof for preventing lateral displacement of the receptacle with respect to the crutch.

2,311,050

IODO DERIVATIVES OF STEROID COMPOUNDS AND A PROCESS OF MANUFACTURING THE SAME

Burckhardt Helferich and Erich Günther, Leipzig, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application October 12, 1938, Serial No. 234,632. In Germany October 12, 1937

16 Claims. (Cl. 260—397.2)

1. Process for the manufacture of iodo derivatives of steroid compounds, wherein the hydroxy compounds of steroids are treated in the form of their organic sulphonic acid esters with iodides soluble in organic solvents.

2,311,051

STRIP FEED FOR WRITING MACHINES

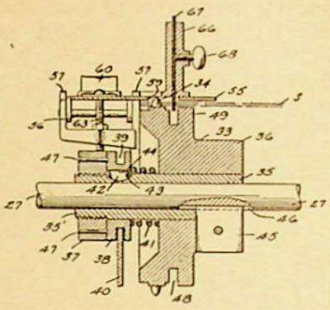
Willliam H. Hope, Jr., Lewiston, N. Y., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y., a corporation of Delaware

Application July 25, 1940, Serial No. 347,457

7 Claims. (Cl. 197—133)

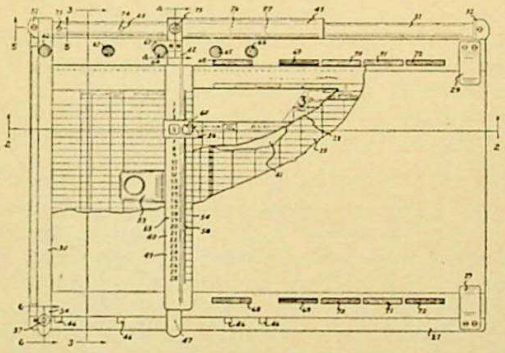
6. In a machine of the character described, in combination, a pin feed unit having pins for engaging and feeding strips, supporting means

for supporting said feed unit for adjusting movements transversely of the path of strip feed, a threaded adjusting device connected to said feed unit for adjusting the latter on said supporting



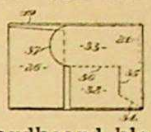
means transversely of the path of strip feed, and a resilient positioning device cooperating with said feed unit in opposition to said adjusting device to maintain accurate positioning of the feed unit in its different adjusted positions.

2,311,052
ACCOUNTANT'S APPARATUS
Rolf Hurup, Minneapolis, Minn.
Application December 26, 1940, Serial No. 371,800
In Sweden October 21, 1938
12 Claims. (Cl. 282—29)



4. An apparatus of the character described, comprising a panel board having a front surface adapted to receive a journal sheet for the posting of business account items spread out upon the panel board, a gripping entity adapted to support an account sheet for the posting of business account items in superimposed relation to said journal sheet while spread out upon said panel board, a guide rod upon said panel board and disposed longitudinally of said journal sheet, a tubular element rigid with said gripping entity and rotatably and slidably mounted upon said guide rod, and spaced apart complemental means assembled with said panel board and said tubular entity, respectively, for releasably securing the gripping entity in fixed relation to the panel board at each of different predetermined stop positions upon said panel board, said gripping entity being adapted to have swinging movement between a position contiguous with said panel board and a position spaced from the panel board, and said complemental means supported by said panel board being adapted to be in alinement with said complemental means supported by said tubular entity longitudinally of said guide rod when said gripping entity is contiguous with said panel board and the complemental means supported by the panel board being adapted to be out of alinement with the complemental means supported by the tubular entity when the gripping entity is swung to position in spaced relation to said panel board.

2,311,053
BOX CONSTRUCTION
William H. Inman, Newark, N. Y., assignor to Bloomer Bros. Company, Newark, N. Y., a corporation of New York
Application April 22, 1940, Serial No. 330,920
3 Claims. (Cl. 229—51)

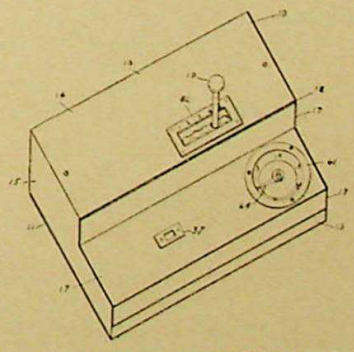


1. A one-piece, cardboard blank for a carton, cut and scored for folding to form a front wall a bottom, a rear wall, a cover and a cover securing flap, in said order from edge to edge of said blank, said bottom having flaps at the ends thereof for folding to form the end walls of the carton, said bottom flaps having tabs at their outer ends for folding inwardly of the carton toward each other, said rear wall having end flaps for folding over said end walls and provided with adhesive for attachment thereto, and said front wall being provided with end flaps for folding over said end wall and each formed with a weakened tear line dividing the same into at least two sections, one of said sections adjacent the lower rear corner of such end flap being provided with adhesive for securing the same to the adjacent end wall and the other of said sections remaining permanently attached to said front wall and having a freely projecting portion adjacent the upper rear corner of such end flap adapted to be gripped and pulled, in the erected condition of the blank, for separating said sections and freeing said front wall for opening movement.

2,311,054
PREPARATION OF AMINO COMPOUNDS
William O. Kenyon and Wesley G. Lowe, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 30, 1939, Serial No. 282,317
3 Claims. (Cl. 260—562)

1. The reduction of m-nitro acetoacetanilide which comprises subjecting its solution in dilute aqueous alkali containing a hydrogenation catalyst to the action of hydrogen under pressure.

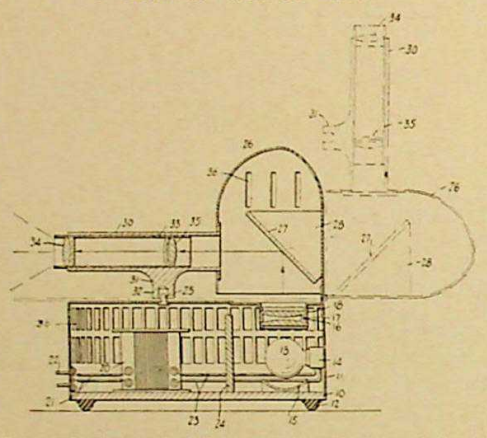
2,311,055
TESTING MACHINE
Joseph S. Kopas, Cleveland, Ohio
Application May 17, 1940, Serial No. 335,802
18 Claims. (Cl. 35—22)



1. A device for scoring multiple choice tests comprising, in combination, pattern means having a plurality of holes therein, each hole corresponding to a correct answer to a question of multiple choice tests, key means on one side of the

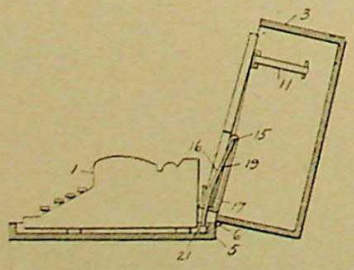
means and operable by the person taking the test to indicate his preference of the multiple choice answers, recording means operable from the other side of the means and adapted to record a correct answer when engaged by the said key means after passing through a correct hole in the means which corresponds to a correct answer, and means governed by the said key means for advancing a next successive hole corresponding to the correct answer to a next successive question upon each operation of the said key means.

2,311,056
MEANS FOR STORING AND PROJECTING FILM TRANSPARENCIES
Charles Langberg, New York, N. Y.
Application March 6, 1941, Serial No. 381,991
4 Claims. (Cl. 88—27)



1. In a slide projection device, in combination, a lower housing having therein an adjustably mounted projection lens system and a mirror, said lower housing having a spindle thereon, an upper housing having therein a light source and a condensing lens system, means for raising and lowering said upper housing whereby slide carrying discs may be placed upon and removed from said spindle with slides carried thereby positioned in the path of light from said light source intermediate said condensing lens system and said mirror, and a door in said upper housing adjacent said light source, said door having a mirror on the inner surface thereof adapted when said door is open to reflect light from said light source upon said spindle and the central portion of said slide carrying disc.

2,311,057
TYPEWRITER CASE
Michael Lipman, New York, N. Y.; Ellis Graham Bishop and James Olmstead Lipman executors of said Michael Lipman, deceased
Application October 4, 1940, Serial No. 359,648
8 Claims. (Cl. 45—68.2)



8. In a case for a typewriter or the like having a cover hinged to a base and a typewriter on the base; a portfolio having a smooth front face and being freely movable in the cover and of shallow depth with respect to the depth of the cover; means attached to the cover and to the portfolio acting to lift the portfolio with the cover when the latter is being opened and spacing it in position with respect to the cover when the latter is open with the front face of the portfolio rearward of the typewriter and forward of the edges of the open end of the cover; and means mounted in said case acting to move the portfolio to said position and cooperating with first means to hold it in said position.

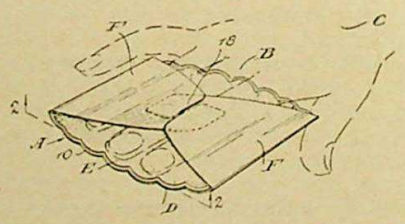
2,311,058
PHOTOGRAPHIC SILVER HALIDE EMULSION
Wesley G. Lowe, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 29, 1941, Serial No. 416,995. In Great Britain February 14, 1939
2 Claims. (Cl. 95—7)

1. A light-sensitive photographic emulsion comprising a silver halide dispersed in a thermal-reversible gel composed of polyvinyl alcohol mixed with a gelling amount of α-naphthol.

2,311,059
PHOTOGRAPHIC SILVER HALIDE EMULSION
Wesley G. Lowe, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 30, 1941, Serial No. 417,165. In Great Britain February 14, 1939
9 Claims. (Cl. 95—7)

1. A light-sensitive photographic emulsion comprising a silver halide dispersed in a thermal-reversible gel composed of polyvinyl alcohol mixed with a gelling amount of substituted hydroxy aromatic compound selected from the group consisting of orcinol, gallic acid, 2-4 dihydroxy benzoic acid, 4-chlor resorcinol, and the substituted monohydric naphthols.

2,311,060
DEPILATORY ABRASIVE PAD
Nathaniel M. Lurrain, New York, N. Y.
Application August 27, 1940, Serial No. 354,406
4 Claims. (Cl. 51—186)



4. An abrasive pad for feminine use to remove unwanted hair from the limbs and other body portions comprising a base having abrasive material on both faces thereof, and integral extension portions extending outwardly from opposite sides of said pliable, stiff sheet base portion and interlocking tongues at the ends of said extension portions, said extension portions being connected to said base portion along fold lines and being foldable together and interlocked by said tongues on either side of said base portion, whereby either side of said base portion may be applied to the body portion to be treated, and

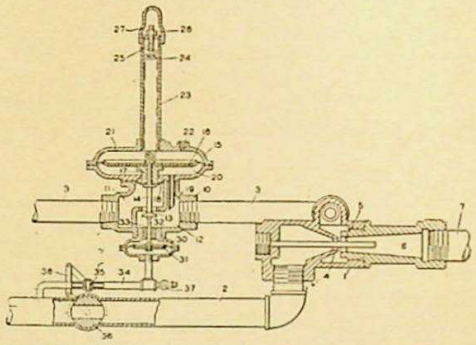
the interlocked extension portions together with the unused face of the base portion will form a pocket to receive the fingers with the fingers contacting the unused abrasive face of the base portion which is thus held firmly by the fingers when being rubbed over the body portion.

2,311,061

GOVERNOR VALVE MECHANISM

Otto Lutherer, Solon, Ohio, assignor to The North American Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application July 3, 1939, Serial No. 282,637
4 Claims. (Cl. 158—119)



1. In apparatus for supplying a mixture of gas and air to a burner and including a burner and the gas and air supply pipes therefor, the combination of a zero pressure governing valve in the gas supply pipe arranged upon flow of both gas and air to regulate the gas flow in accordance with the suction effect of the burner, differential pressure operated movable abutment means so arranged and mounted that when its abutment moves in one direction it closes said valve to positively shut off gas flow and when moved in the opposite direction it releases said valve for free movement, and means associating said abutment means with the air supply pipe in such manner as to move said abutment in the valve releasing direction when normal air flow to the burner is permitted and to move said abutment in the valve closing direction when the air flow is abnormally reduced.

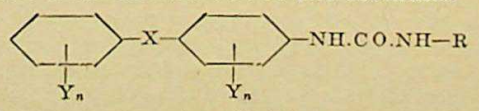
2,311,062

HALOGEN SUBSTITUTED ACYLAMINO SULPHONIC ACIDS

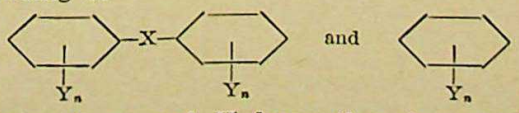
Henry Martin, Basel, Hans Heinrich Zaeslin, Riehen, near Basel, and Rudolf Hirt, Curt Glatthaar, and Alfred Staub, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application June 13, 1939, Serial No. 278,954. In Switzerland June 16, 1938
8 Claims. (Cl. 260—507)

1. The urea derivatives of the formula:



wherein X represents a linking member selected from the group consisting of O, S, and SO_2, Y represents a member of the group consisting of H, alkyl and halogen, n is one of the integers 1 and 2, and R represents a member of the group consisting of



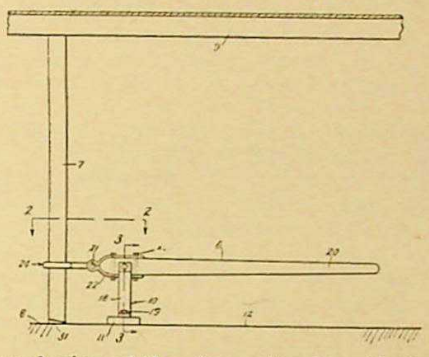
wherein Y, n and X have the above-defined meanings, there being at least one SO_3H group in at least one of the aforesaid benzene nuclei and at least one halogen atom in at least one of said nuclei, said derivatives being useful for durably protecting wool and other substances against moths and for disinfecting and like purposes.

2,311,063

SHORE JACK

Hubert L. Martin, Cincinnati, Ohio

Application May 19, 1942, Serial No. 443,597
3 Claims. (Cl. 254—131)



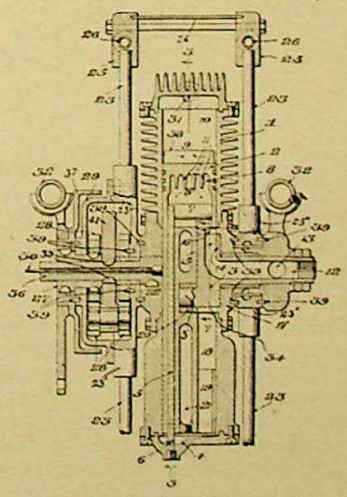
1. In a device of the character described a base, a lever on the base and an S-shaped clamping member having three spaced, parallel straight portions disposed transversely of said lever, longitudinal straight portions joining adjacent transverse portions on opposite sides of the device, two adjacent transverse portions forming clamping jaws for transverse insertion around a member to be raised while said remaining portion forms a pivot connection for the device with said lever.

2,311,064

GYROSCOPIC INTERNAL COMBUSTION ENGINE

Pierce R. McCrary, Washington, D. C., assignor to McCrary Engineering Company, Inc., a corporation of the District of Columbia

Application February 20, 1942, Serial No. 431,771
14 Claims. (Cl. 123—44)



5. In an internal combustion engine, the combination of a cylinder mounted for revolution on its central axis, a piston mounted for revolution on an axis central of the piston but offset from the central axis of the cylinder, a crank having its crank pin positioned at the central axis of the piston, a firing chamber at one end of the cylinder and a pre-compression chamber at the other end of the cylinder for collecting unvapor-

ized fuel, a pipe extending longitudinally through the piston providing a passage for unvaporized fuel from the aforesaid pre-compression chamber to the vaporizing chamber within the head of the piston for further vaporization of the fuel, ports opening out of said vaporization chamber in the piston head and by-passes extending from said ports, and a main compression chamber with which said by-passes connect while the main compression chamber is at its most expanded size.

2,311,065

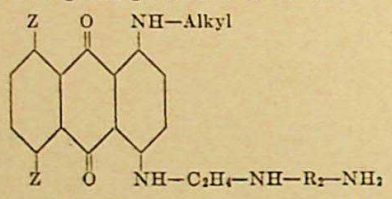
AMINO ANTHRAQUINONES

James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 28, 1940, Serial No. 321,337

2 Claims. (Cl. 260—371)

1. The non-sulfonated anthraquinone compounds having the general formula:



wherein each Z represents a member selected from the group consisting of hydrogen, a hydroxyl group, an amino group, and an alkylamino group, and R_2 represents a benzene nucleus.

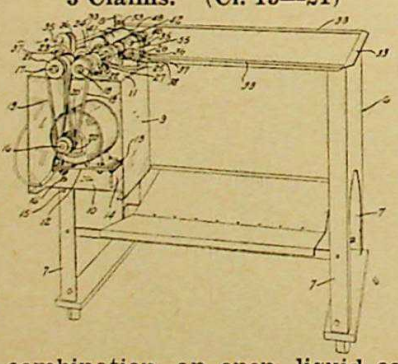
2,311,066

SEPARATOR DISK SCRUBBING MACHINE

Roy L. Meyers, Janesville, Wis.

Application September 29, 1941, Serial No. 412,744

3 Claims. (Cl. 15—21)



3. In combination, an open, liquid containing washing receptacle, a support mounted on the receptacle adjacent an upper side wall portion thereof, a pair of substantially parallel brush carrying revoluble shafts projecting over the open receptacle, elongated cylindrical brushes fast on the projecting portions of said shafts, peripheral portions of said brushes being in close adjacency for impinging a portion of an article to be scrubbed, a malleable arm having one end thereof adjustably supported adjacent a side portion of the receptacle and having its free end terminating adjacent a brush, a spherical weight carried by the free end of said arm to yieldingly bear against an exterior portion of a brush engaged article to releasably hold the latter in engagement with the brushes, adjustable bearings mounted on said support in which other portions of the brush shafts are journalled, and driving means carried by said support and extending to said shafts.

2,311,067

SATURATED AND UNSATURATED 17-HYDROXY-ANDROSTANES, THEIR DERIVATIVES AND SUBSTITUTION PRODUCTS, AND PROCESS OF MAKING SAME

Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application December 26, 1940, Serial No. 371,833. In Switzerland December 23, 1939

9 Claims. (Cl. 260—397.5)

1. A process of the character described which comprises treating an androstane-17-one, containing in the rings A and B merely a tertiary hydroxyl group, with an agent capable of transforming the group —CO— into the group —CH(OH)—, and causing the product thus obtained to react with a water-eliminating agent and then with an oxidizing agent.

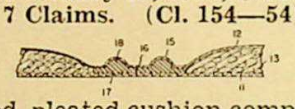
2,311,068

UPHOLSTERY MATERIAL

John R. Millar, Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware

Application February 13, 1939, Serial No. 256,191

7 Claims. (Cl. 154—54)



2. A stuffed, pleated cushion comprising a cover fabric, a backing fabric, said cover fabric formed to provide pleat fullnesses, padding material in said pleat fullnesses, said fabrics being united along lines intermediate said pleat fullnesses, strips of flexible rubber along said lines vulcanized to both said fabrics, the faces of said strips being formed into decorative designs, and said cover fabric conforming to said designs, and sewed seams extending along said strips.

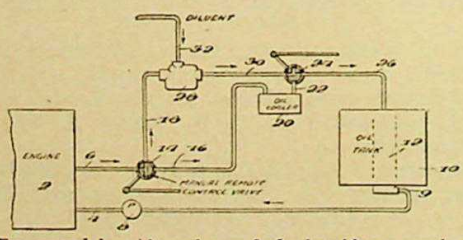
2,311,069

LUBRICATING SYSTEM

Leslie T. Miller, Stoneleigh, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.

Application July 16, 1941, Serial No. 402,569

16 Claims. (Cl. 184—6)



15. In combination in a lubrication system for an engine, a reservoir for lubricant, a supply line to conduct lubricant from the reservoir to the engine, a return line to conduct lubricant from the engine to the reservoir, and a valve in the return line to introduce a diluent into said return line.

2,311,070

LIFESAVING FIRE ESCAPE APPARATUS

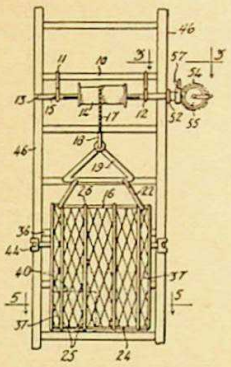
Emanuel R. Morando, New York, N. Y.

Application April 16, 1942, Serial No. 439,298

4 Claims. (Cl. 227—8)

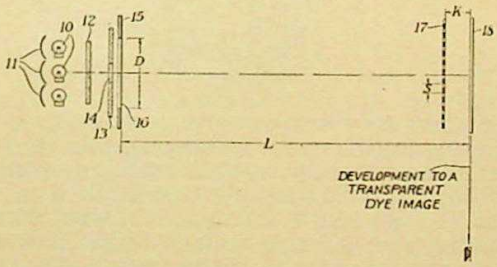
1. In a safety apparatus of the character described, the combination of, a safety cage-like basket, having top and bottom ring members

connected by vertically spaced rods forming loop and hook portions around and onto said ring members, said vertical rods forming the side wall portion of said basket or cage, said bottom ring member having spaced rods forming the floor portion therewith, the top ring member and inner wall portion of said basket or cage, adaptable to have a suitable netting affixed thereto, adjustable tube and shaft members secured to a



pair of said vertical rods, the ends thereof provided with slide shoes adapted to fit onto the side frame members of a ladder, hoisting and lowering means provided upon the upper portion of said ladder connecting to said top ring member of said basket or cage, whereby said basket or cage may carry victims downwardly from the windows or roof of a burning building, said basket or cage adaptable to be collapsible when not in use.

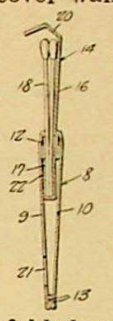
2,311,071
HALFTONE SCREEN
Alexander Murray, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 12, 1942, Serial No. 426,494
8 Claims. (Cl. 95—81)



1. A contact halftone screen comprising elements graded substantially continuously in density from the centers to the corners thereof and a transparent support for the elements, which screen has a diffuse brightness ratio at 45° less than .0002.

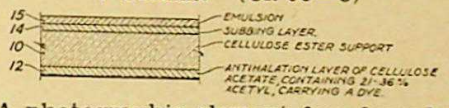
2,311,072
SAFETY MATCH PACK
William N. Musson, Carneys Point, N. J.
Application May 12, 1941, Serial No. 393,096
2 Claims. (Cl. 206—29)

1. In a match pack, a cover having relatively wide front and back walls, the said cover being open at the top and having the top edge portions folded inwardly and downwardly, one of the said walls having a transversely elongated opening in the lower portion thereof, a match strip carrying a plurality of detachable match ends slidably mounted in the said cover disposed to assume a fully concealed retracted position therein and movable through the top opening to projected match detaching position, and an inwardly and upwardly folded end portion at the bottom of the said match carrying strip having an exterior striking surface adapted to register with the opening in the cover wall when the strip is



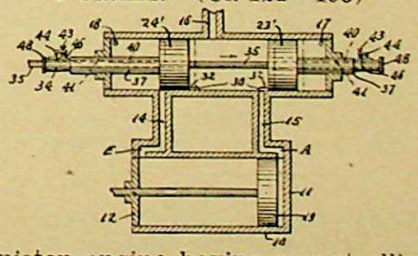
retracted, the said folded portion of the strip being disposed so as to abut the folded top portion of the cover when the strip is fully projected to limit the outward movement of the strip.

2,311,073
ANTIHALATION FILM
Gale F. Nadeau and Alfred D. Slack, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 4, 1941, Serial No. 381,695
7 Claims. (Cl. 95—8)



1. A photographic element free from halation which comprises a support provided with a light sensitive emulsion layer, and an antihalation layer of a water-permeable cellulose ester containing substantially 4 to 6 acyl groups per C_{24} cellulose unit, of which all are aliphatic monobasic acid acyl groups of less than five carbon atoms, said layer carrying a light-absorbing dye.

2,311,074
STEAM ENGINE
William Newcomb, Brooklyn, N. Y.
Application May 24, 1940, Serial No. 336,917
6 Claims. (Cl. 121—193)

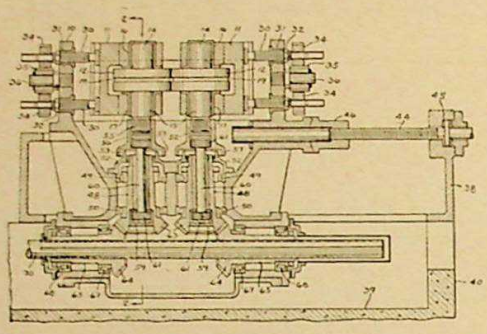


1. A piston engine having a controlling valve with adjustable lap members for engaging over the inlet and outlet ports for controlling the steam consumption, efficiency and operation of said engine, each lap member being longitudinally slidably mounted on the periphery of said valve and having teeth, a worm rotatively supported and engaging said teeth, a tubular member extending to the exterior and supporting said worm by which the worm may be turned.

2,311,075
ROLLING MILL
Joseph M. O'Malley, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application March 5, 1940, Serial No. 322,331
3 Claims. (Cl. 80—54)

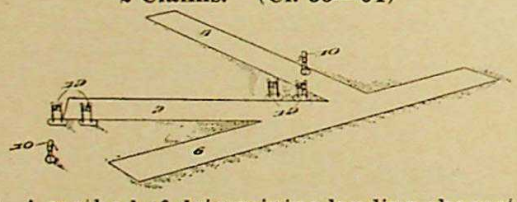
1. Driving means for a pair of vertical rolls which are independently adjustable horizontally

in the vertical plane defined by their axes comprising a coupling member mounted on the lower end of each roll, a vertical rotatable quill beneath each roll, an upper and a lower bearing for each quill, means to rotate said quills, a coupling member on the lower portion of each quill, an upright spindle extending through each quill, each of said spindles having a universal connection at



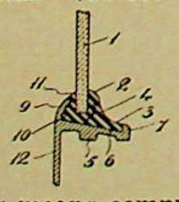
its ends with the corresponding coupling members, whereby the said adjustment of the rolls may be accomplished without disturbing the quills, and a depending annular skirt on each of the first-mentioned coupling members arranged to form a shield for the said bearings therebeneath.

2,311,076
MEASUREMENT APPARATUS
William B. O'Neal and William P. Zimmerman, Baltimore, Md., assignors to The Glenn L. Martin Company, Baltimore, Md.
Application November 5, 1940, Serial No. 364,418
2 Claims. (Cl. 33—64)



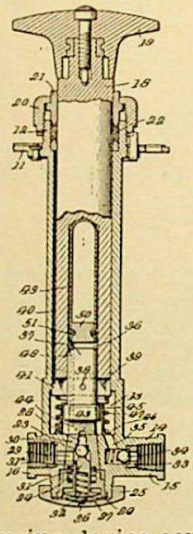
1. A method of determining landing characteristics of an airplane which comprises pre-exposing a photographic film, to impress thereon the latent image of a grid, re-exposing the film by taking on said film a succession of pictures of the airplane landing, in a camera capable of making exposures at timed intervals, and processing the film to develop the superposed images.

2,311,077
MEANS FOR GLAZING WINDOWS
Fred Alexander Maugham Oldham, Birmingham, England, assignor by direct and mesne assignments of one-third to Arthur Sam Cheston, one-third to Edward Cyril Edmonds and one-third to Basil Cheston, all of Birmingham, England
Application April 10, 1941, Serial No. 387,969
In Great Britain November 9, 1939
1 Claim. (Cl. 189—78)



Window glazing means comprising a window-aperture frame or surround having a base provided with an upstanding lip at one side and with an integral upstanding wall at the other side, said wall being inwardly sloped from its lowermost part so as to overhang the base part for its entire depth, and the upper surface of the base part having a continuous upward slope from the lip to the upstanding wall, in combination with a rubber channel member adapted to receive an edge of the window panel and to be seated upon the said base part, said channel member having at one side a flexible resilient retaining flap or flange adapted to be engaged over the lip of the base part and having at the opposite side a wall which is sloped inwardly from its lower edge to correspond with the inwardly sloped wall of the frame base part so as to co-operate and mate therewith, the said wall of the frame base part being designed to form a lead which, when engaged by the channel member, co-operates therewith to cause the said member to be automatically bedded down on to the base part during the mounting of the window panel within the frame.

2,311,078
ENGINE PRIMER
Arthur L. Parker, Cleveland, Ohio
Application March 3, 1941, Serial No. 381,553
9 Claims. (Cl. 103—2)

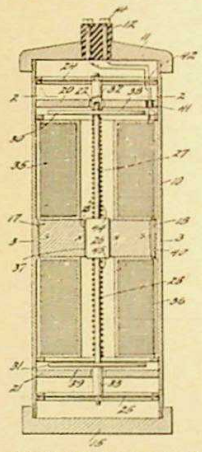


1. A fluid dispensing device comprising a pump casing having a reciprocating piston therein, a distributing valve associated with the casing for controlling distribution of the fluid, means operable to provide a releasable connection between the piston and the valve near the end of the compression stroke of the piston whereby rotation of the piston will effect rotation of the valve to different set positions, locking means for preventing rotation of the connected piston and valve from an inoperative position preventing distribution of fluid and said locking means being releasable upon initial movement of the piston in the direction of compression, and means providing a variable chamber associated with the dispensing device and responsive to displacement of fluid within the casing for permitting displacement of the fluid in the casing upon movement of the piston away from its locked position whereby to facilitate release of the locking means.

2,311,079
TRANSDUCER
Josephus O. Parr, Jr., San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application March 28, 1940, Serial No. 326,509
12 Claims. (Cl. 177—352)

1. A magnetic seismometer including, in combination, a cylindrical, tubular casing of mag-

netic material, a pole piece at and magnetically associated with each end of the casing, a steady mass of magnetic material spring supported from and in said casing for relative axial movement in respect to said pole pieces, a permanent magnet intermediate the ends of the casing and extending from the same toward the steady mass to provide and energize two parallel magnetic circuits the reluctances of which are inversely



varied by said relative movement, a pair of similar coils fixed in said casing and each adapted to generate a voltage when linked by changing magnetic flux in one of said circuits resulting from such relative movement, said coils being so wound and connected together as to add the generated signal voltages, said connection being such as to cause voltage generated in the coils by stray fields to oppose and cancel each other.

2,311,080

TEXTILE TREATMENT

Paul S. Pinkney, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 8, 1940, Serial No. 364,886

8 Claims. (Cl. 8—124)

1. In a process for reacting a textile material with formaldehyde, the steps comprising impregnating said material with an aqueous solution of formaldehyde, drying said impregnated material, and heating the same to reaction temperature by immersion in an inert heating liquid at a temperature of between 70° C. and 200° C., whereby said material is uniformly reacted with the formaldehyde and objectionable embrittlement thereof is prevented.

2,311,081

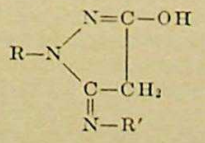
IMINOPYRAZOLONE COUPLER FOR COLOR PHOTOGRAPHY

Henry D. Porter and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 14, 1941, Serial No. 419,172

8 Claims. (Cl. 95—6)

1. A color forming photographic developer comprising a primary aromatic amino developing agent and a coupler compound having the formula:



in which R and R′ are aryl groups.

2,311,082

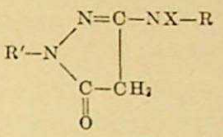
PYRAZOLONE COUPLER FOR COLOR PHOTOGRAPHY

Henry D. Porter and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 14, 1941, Serial No. 419,173

10 Claims. (Cl. 95—6)

1. A color forming photographic developer comprising a primary aromatic amino developing agent and a coupler compound having the formula:



in which R is selected from the class consisting of alkyl groups and aryl groups, R′ is selected from the class consisting of hydrogen and alkyl groups, and X is selected from the class consisting of hydrogen and acyl groups.

2,311,083

PROCESS OF TREATING COPPER

Harvey S. Rader, Palmerton, Pa.

No Drawing. Application May 1, 1941 Serial No. 391,421

4 Claims. (Cl. 148—13.2)

1. The herein stated process of treating articles consisting predominantly of copper, for the purpose of toughening and increasing the resistance of the same to bending, which comprises subjecting the article to boiling for a predetermined period of time in an aqueous bath containing asbestos, magnesium carbonate, potassium nitrate and vinegar.

2,311,084

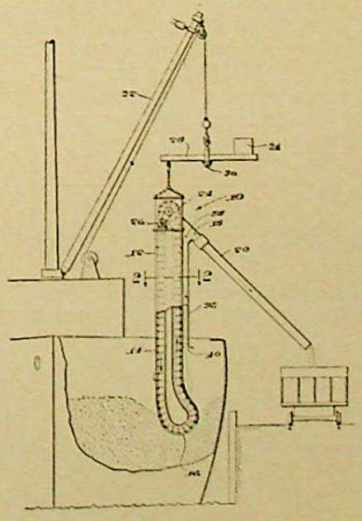
ELEVATOR

Arnold Redler, Stroud, England, assignor to Redler Conveyor Company, Quincy, Mass., a corporation of Massachusetts

Application August 2, 1940, Serial No. 349,665

In Great Britain August 23, 1939

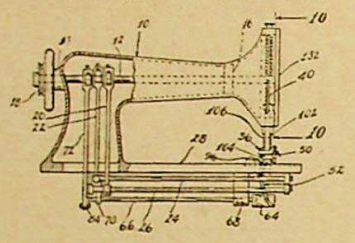
11 Claims. (Cl. 198—126)



1. In a device of the character described, in combination, an elevator comprising a casing having an inlet at its lower end engageable with the material to be discharged and having an outlet adjacent its upper end, and means for

suspending the elevator above the material including a counterweight operatively connected to said elevator for counterbalancing the weight thereof, and a receptacle arranged to receive a portion of the material being discharged, the weight of which material will effect a downward movement of said elevator to cause the latter to descend in accordance with the level of the material being discharged.

2,311,085
FOLDING MACHINE
John W. Rudolph, St. Louis, Mo.
Application April 28, 1942, Serial No. 440,887
4 Claims. (Cl. 12—55)

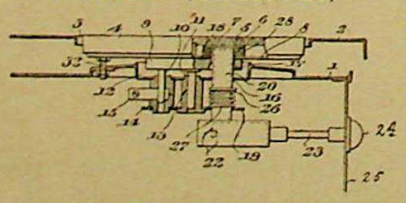


1. A machine for folding sheet material, comprising a frame, a shaft mounted on said frame for oscillation about its longitudinal axis, a folder member mounted on said frame for oscillatory movement about an axis at right angles to said shaft axis, means connecting said shaft to said folder member for oscillating the latter when the shaft is oscillated, a presser member mounted for movement on said frame, means for oscillating said shaft, and means for moving said presser member in timed relation to the oscillations of said folder member.

2,311,086
METHOD OF PREPARING PHOTOGRAPHIC PRODUCTS FROM COMPOSITIONS CONTAINING FAR-HYDROLYZED CELLULOSE ESTERS
Martin Salo, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 1, 1941, Serial No. 417,522
3 Claims. (Cl. 117—34)

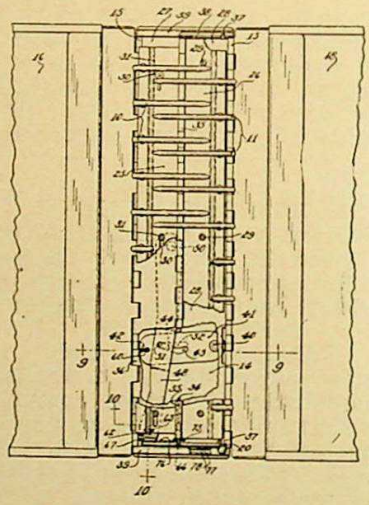
1. A method of treating a photographic emulsion containing a far-hydrolyzed cellulose ester as the protective colloid, after it has been coated out in the form of a layer upon a support therefor, which comprises immersing the emulsion layer in methyl alcohol.

2,311,087
ELECTRICALLY HEATED STOVE AND THE LIKE
Bror Hugo Ragnvald Sandell, Amal, Sweden
Application December 3, 1940, Serial No. 368,399
In Sweden May 13, 1939
1 Claim. (Cl. 219—37)



In an electrically heated stove, a support, a plug receptacle carried by said support, a heater plate mounted in a position above said support and plug receptacle, plug means carried by the underside of the heater plate and extending into said receptacle, a resistance heating element in said plate connected to said plug means, said plate having a socket formed in its underside and provided with a top heat conducting wall adjacent the heating element, an adjustable thermostatic control member mounted in said support for limited movement toward and away from the plate and in register with the socket when the plug means of the plate is in the receptacle, said thermostatic control member having an upper heat conducting surface, spring means urging the thermostatic control member up in the socket to press the upper heat conducting surface into heat conducting engagement with the top heat conducting wall of the socket, and a heating circuit controlled by said thermostatic control member for automatically breaking and closing said circuit at temperatures determined by the adjustment of said adjustable thermostatic control member.

2,311,088
LOOSE-LEAF BINDER
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application April 10, 1941, Serial No. 387,902
11 Claims. (Cl. 129—24)

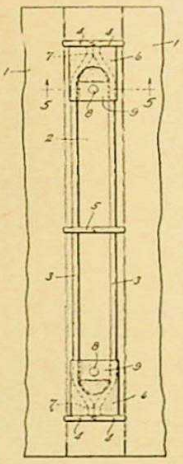


10. In a binder construction for visible index sheets, a back support, a pair of plates hinged together, the free edge of one plate being hinged to one edge of the back support while the free edge of the other hinged plate is free to move in guides transversely of the back support, a set of prongs mounted on each of said hinged plates normally in overlapped relation, at least one set being movable longitudinally, and actuating means for swinging the hinged plates to carry the prongs out of overlapped relation and, while out, move one set longitudinally and bring the sets in overlapped relation in their changed position, said actuating means by reverse operation returning all parts to their original position.

2,311,089
RING BINDER CONSTRUCTION
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application September 23, 1941, Serial No. 411,958
2 Claims. (Cl. 129—24)

1. A ring binder construction comprising a curved back panel with hinged covers, a wire

frame toggle mechanism of the kind having two generally parallel spaced wires with portions near each end bent horizontally to make toggle joints and with end portions bent to make two vertically arranged end rings, spring clips, one covering each of the bent toggle joints, each clip having an upwardly arched cover portion and bent under side edges to hold the wires in position and a riveting portion comprising a



downwardly arched portion curved to make a substantial reenforcing contact with said back panel, said last mentioned arched portion of each clip being riveted to the back panel, the downwardly arched portions of said clips being located between the spaced wires of the toggle mechanism.

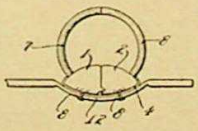
2,311,090

LOOSE-LEAF BOOK CONSTRUCTION

John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts

Application November 24, 1941, Serial No. 420,180

3 Claims. (Cl. 129—24)



1. A ring binder comprising a binder case having means on its back panel to hold toggle mechanism together in operating relationship, a loose leaf toggle mechanism comprising two complementary toggle blocks having similar cross-sectional form with the toggle pivot formed by tongue and groove formation in the blocks, said blocks when together having an under surface of substantially continuous form adapted to the form of the binder back panel and an upper surface of arch-shaped cross-section and substantially continuous form adapted to contact the margins of loose leaf sheets turning and help such operation, and binder rings carried by said blocks to be opened and closed by opening and closing the toggle mechanism.

2,311,091

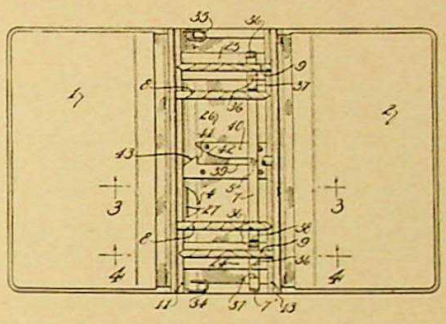
LOOSE-LEAF BINDER

Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts

Application April 4, 1942, Serial No. 437,611

7 Claims. (Cl. 129—8)

1. A post binder of large capacity and of comparatively light weight comprising in combination, a back panel construction of two flat parts adapted to slide one on the other, each part provided with a bar of substantial thickness resting on its outer edge margin, each bar including an intermediately located vertical flange along its upper length for carrying binder posts, a longitudinal shelf along the outer side of each bar provided by the distance between its flange connection and said outer side, a cover having a binding margin fastened against each flange and seated on its shelf, a cover hinge between the cover and said binding margin, the line of said hinge being located close to the upper level of the adjacent flange, and back panel manipula-



ting mechanism to control the relative positions of said flat parts in their movements, said bars having recesses along their lower sides adapted to accommodate parts of said mechanism when the binder is in closed condition, said manipulating mechanism having a flexible hinge of material such as cloth extending beyond the outer edge of one panel and provided with a beaded edge and fingers carried by the other panel to engage the beaded edge for holding it for making the hinge over the outer edge of such other panel when desired all constructed and arranged for the purpose described.

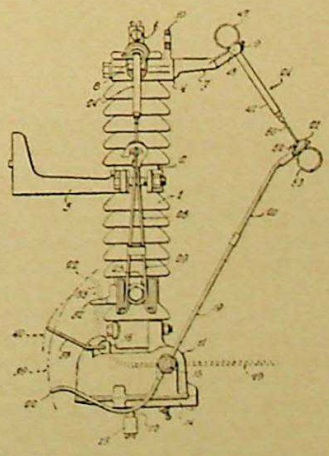
2,311,092

REPEATING CUTOUT CONSTRUCTION

William O. Schultz, South Milwaukee, and Alwin G. Steinmayer, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis., a corporation of Delaware

Application August 3, 1940, Serial No. 350,994

15 Claims. (Cl. 200—126)



1. A repeating cut-out construction comprising a body portion, a first terminal member carried by said body portion adjacent one end

thereof and having a fuse link receiving portion, a second terminal member adjacent the other end of said body portion and having a movable arm provided with a fuse link receiving portion and biased toward motion away from said first terminal member, a fuse link normally carried by said fuse link receiving portion and restraining said movable arm against motion, a reserve fuse link, and an auxiliary switch for connecting said reserve fuse link between said terminal members, said auxiliary switch having at least the initial portion of its closing stroke initiated by movement of said movable arm, said auxiliary switch remaining closed when said movable arm is moved back to its initial position during refusing.

2,311,093

REARRANGEMENT OF ISO-DIALKYLSTILBESTROLS TO DIALKYLSTILBESTROLS

Arthur Serini, Berlin, and Konrad Steinruck, Berlin-Tegel, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application December 16, 1939, Serial No. 309,610. In Germany January 13, 1939

3 Claims. (Cl. 260—619)

1. A process for the manufacture of dialkyl stilbestrols comprising treating an iso-dialkyl stilbestrol in an autoclave with an alcoholic solution of an alkali metal hydroxide to temperatures of above 200° C.

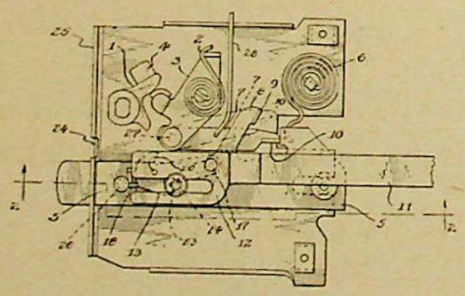
2,311,094

OPTIONAL SAFETY HANDLE FOR LOCKS FOR AUTOMOBILE BODIES

Emory Glenn Simpson, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application September 17, 1941, Serial No. 411,092

5 Claims. (Cl. 292—165)



1. In a lock, a casing, an outside roll back for connection with an outside handle, a bolt movable in the casing, operating connections between the outside rollback and the bolt, means for rendering said operating connection ineffective to retract the bolt for thereby locking the door, inside operating connections comprising a link and a head which can slide with respect to the bolt, and means for optionally fastening the head to the bolt so that the head cannot slide with respect to the bolt or to the outside operating connections so that the head can slide with respect to the bolt and operate the bolt only through the outside operating connections, said means comprising a selector arm on the head which may be moved to one position to directly engage a portion of the bolt and to the other position to directly engage a member of the outside operating connections.

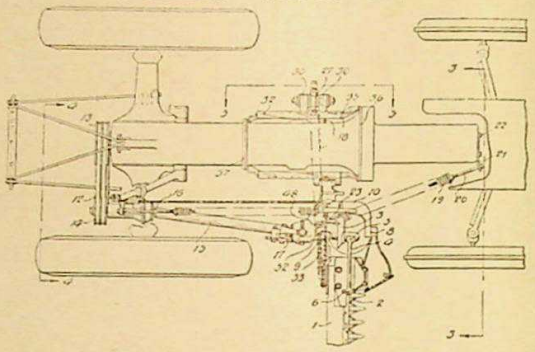
2,311,095

SIDE MOWER FOR TRACTORS

Howard W. Simpson and Aram Abgarian, Detroit, Mich., assignors to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application June 16, 1941, Serial No. 398,296

4 Claims. (Cl. 56—25)



1. In a mowing machine adapted for attachment to a tractor, said mowing machine including a mower bar, an oscillating sickle, and a drag bar one end of which is secured to the mower bar, said drag bar extending generally laterally of the tractor, a pivoted lever member connected to the other end of the drag bar, a support for the said pivoted lever member mounted on the tractor, said support including distortable elastic material in compression and also in torsion when the mowing machine is operating for floating the pivoted member whereby the vibration transmitted through the drag bar to the pivoted lever member is damped.

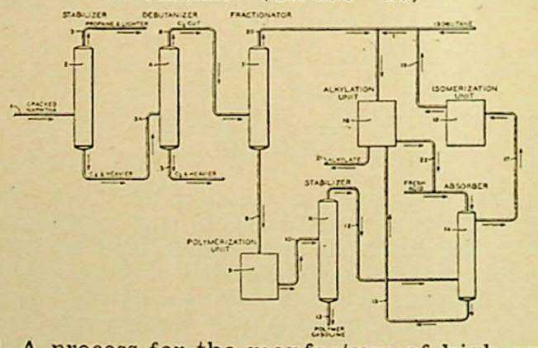
2,311,096

MANUFACTURE OF MOTOR FUEL

Lynn R. Strawn, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

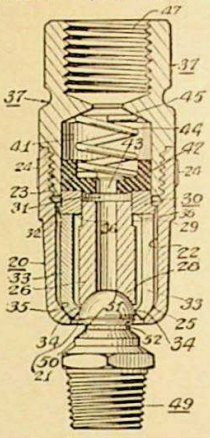
Application April 6, 1940, Serial No. 328,195

11 Claims. (Cl. 196—10)



8. A process for the manfacture of high anti-knock gasoline hydrocarbons from a hydrocarbon fraction containing mainly C_4 saturated and unsaturated hydrocarbons, which comprises separating said hydrocarbon fraction into an iso C_4 cut containing isobutane, isobutylene and butylene-1, and a normal C_4 cut containing normal butane and butylene-2, subjecting said normal C_4 cut to catalytic polymerization to partially convert butylene-2 to polymer liquid, separating the polymer liquid from the remaining unconverted normal C_4 cut, subjecting said remaining unconverted normal C_4 cut to contact with an absorption liquid to absorb remaining butylene-2 therefrom, separating said absorbed butylene-2 from resulting unabsorbed normal butane, and alkylating a low-boiling isoparaffin with said absorbed butylene-2 in the presence of an alkylation catalyst and in the substantial absence of normal butane to produce gasoline hydrocarbons of high anti-knock value.

2,311,097
MULTIJAWED CHUCK-TYPE HYDRAULIC SNAP-ON COUPLER
Edwin P. Sundholm, Albert City, Iowa
Application October 17, 1941, Serial No. 415,460
3 Claims. (Cl. 285—169)

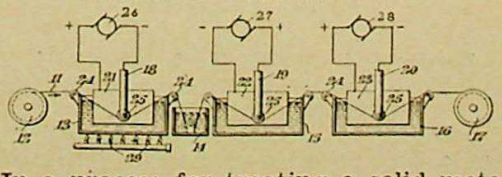


3. A multi-jawed chuck-type hydraulic snap-on coupler for use with a headed fluid-receiving nipple including a generally tubular housing, a plurality of nipple-gripping jaws disposed within the forward end of said housing, a generally tubular nipple-sealing member disposed within the forward end of said housing, a jaw-actuating piston operatively disposed within said housing rearwardly of said jaws, and a spring-pressed flexible cup-like apertured sealing washer disposed within said housing and adapted to establish a fluid-tight seal with said housing, with said piston and with said nipple-sealing member.

2,311,098
PHOTOGRAPHIC FILM COMPRISING NITROCELLULOSE FILM BASE STABILIZED BY A DIHYDRAZIDE OF AN ALIPHATIC DICARBOXYLIC ACID
Donald R. Swan and John M. Calhoun, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 13, 1941, Serial No. 419,026
13 Claims. (Cl. 95—9)

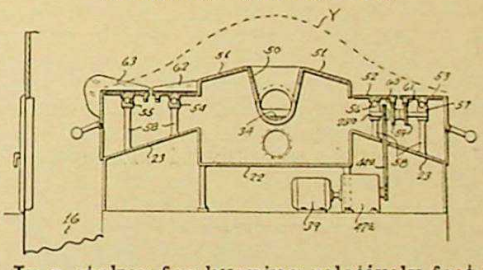
1. A photographic sensitive element comprising a photographic emulsion which would normally be deleteriously affected by continued proximity to nitrocellulose film base, and nitrocellulose film base comprising, as a stabilizer for the nitrocellulose, a stabilizing amount of a dihydrazide of an aliphatic dicarboxylic acid, whereby the deleterious effect of the nitrocellulose film base on the photographic emulsion is materially reduced.

2,311,099
METAL TREATMENT
Urlyn Clifton Tainton, Baltimore, Md.
Original application October 21, 1938, Serial No. 236,340. Divided and this application March 13, 1942, Serial No. 434,457
10 Claims. (Cl. 204—145)



1. In a process for treating a solid metal article to remove oxides, scale and the like, the steps of providing a bath of a molten compound of a metal from the group consisting of the alkali and alkali earth metals and containing in solution a metal also from said group and electropositive relative to the treated metal of the article, introducing said article in solid form into said bath without connection of said article as an electrode of an electric source supplying current to the bath, said article being solid at the temperature of the bath, maintaining said bath at a temperature below the boiling point of said treating metal and sufficiently high above the fusion point of the molten compound to maintain said supplied metal in solution in said bath at the area of contact with said article whereby to avoid a deposit of said treating metal on said article, continuing said treatment for a sufficient length of time with sufficient treating metal in solution and without connection of the article as an electrode of an electric source to complete the desired reduction of the oxides, scale and the like in the bath without dependence on current through the article as an electrode of an electric source and without accumulation of deposit of said treating metal on the article, and removing the article from the molten bath.

2,311,100
STOKER
Samuel A. Townsend, Jr., Webster Groves, Mo.
Application July 25, 1940, Serial No. 347,407
2 Claims. (Cl. 110—47)

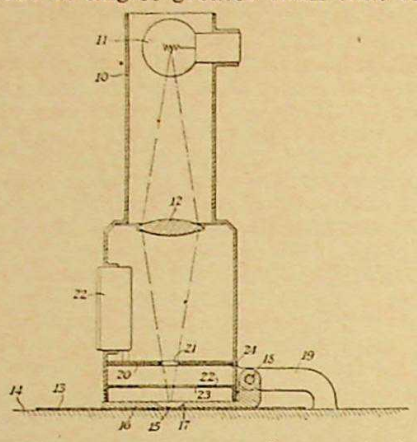


1. In a stoker for burning relatively fast burning fuel, a retort well having upper portions and outwardly inclined apron structure containing tuyères, under feed means for forcing fuel into said well and across said apron, perforated traveling grate means extending from immediately beneath the outer edges of said apron structure horizontally a substantial distance outwardly therefrom so as to maintain a bed of fuel of substantial depth adjacent said well, means to apply forced draft to said tuyères and said grate structure, driving mechanism for conjointly operating said under feed and draft means and said traveling grate structure, and means for automatically shifting coal from the inner to the outer edges of said grate structure and for removing ashes from the outer edges of the latter.

2,311,101
DENSITOMETER
Clifton M. Tuttle and William Bornemann, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 6, 1941, Serial No. 382,004
10 Claims. (Cl. 88—14)

1. A densitometer for measuring the diffuse reflection density of a surface, comprising a housing with an opening in one end against which the surface may be held, means in the housing for focusing a cone of light at substantially normal incidence onto the opening with the apex of the cone substantially at the surface, a photoelectric surface carried in the housing and surrounding the light cone at a point spaced from

its apex for receiving light diffusely reflected by the surface at angles greater than that of one-



half of said cone and means for measuring the response of the photoelectric surface.

2,311,102

DOUBLY UNSATURATED KETONES AND PROCESS OF MAKING SAME

Albert Wettstein, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application January 10, 1941, Serial No. 374,017. In Switzerland February 20, 1940

3 Claims. (Cl. 260—397.4)

1. Process for the manufacture of $\alpha,\beta:\gamma,\delta$-doubly unsaturated ketones, which comprises treating a member of the group β,γ-unsaturated ketones and β,γ-unsaturated secondary alcohols of the cyclopentanopolyhydrophenanthrene-series with quinones in the presence of a member of the group consisting of alcoholates and phenolates derived from one of the metals aluminum, zinc and magnesium.

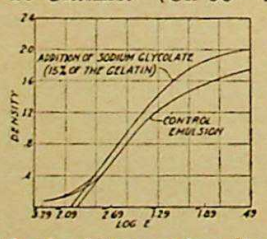
2,311,103

PHOTOGRAPHIC SILVER HALIDE EMULSION

Walter J. Weyerts, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 13, 1941, Serial No. 418,952

10 Claims. (Cl. 95—7)



1. The method of improving the sensitometric characteristics of a gelatino-silver halide emulsion which comprises treating said emulsion with a salt having a cation selected from the group consisting of ammonium, amino and alkali metal, and an anion of an aliphatic hydroxy monobasic organic acid.

2,311,104

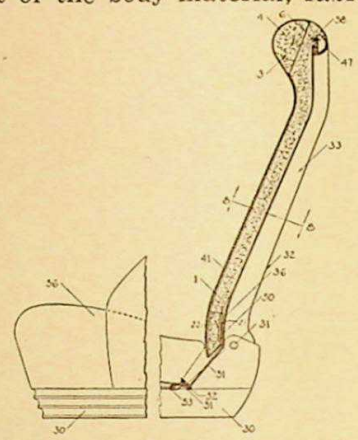
CHAIR OR SEAT STRUCTURE, AND UPHOLSTERY ASSEMBLY THEREFOR

Carl H. Will, Winnetka, Ill., assignor to Tropic-Aire, Incorporated, Chicago, Ill., a corporation of Delaware

Application July 31, 1940, Serial No. 348,655

4 Claims. (Cl. 155—179)

1. In combination with a chair back comprising, a frame providing upright side members, a back cloth bridging said members, a cushion unit laid against the forward side of the back cloth and composed of a first resilient cushion material having directly attached thereto at opposite margins as extensions thereof, strips of a second cushion material which has a greater resiliency than that of the body material, fabric material



secured to and securing the first and second materials together and passing rearwardly and around said upright members, and a taut finishing material placed in opposition to the forward side of said fabric material and extending rearwardly and over said fabric material, also around said members and attached to said members.

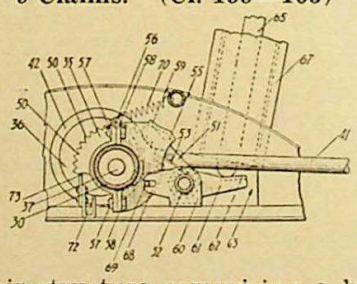
2,311,105

CHAIR OR SEAT STRUCTURE, AND CONTROL FOR SEAT BACK-ADJUSTING MECHANISM THEREOF

Carl H. Will, Winnetka, Ill., assignor to Tropic-Aire, Incorporated, Chicago, Ill., a corporation of Delaware

Application December 19, 1940, Serial No. 370,782

9 Claims. (Cl. 155—163)



2. A chair structure comprising a base and a back pivoted to the base, a shaft on the base extending in the same direction as the axis of the pivot for the back, means connecting the back to the shaft so that for a given degree of angular swing of the back the shaft is caused to rotate in a relatively much greater degree, said connecting means including an eccentric movable with the shaft, and means connecting the eccentric with the back, a toothed member having a relatively large number of teeth and movable with the shaft, a pawl having teeth engageable with the teeth of the toothed member, a spring for automatically releasing the pawl, and manually operable means for controlling the pawl.

2,311,106

GAME

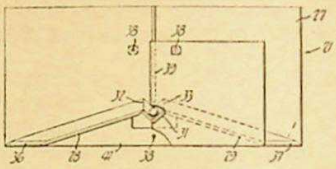
Laurence V. Wood, Berkeley, Calif.

Application July 14, 1941, Serial No. 402,269

3 Claims. (Cl. 273—1)

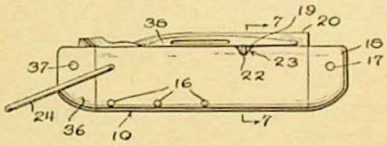
1. A goal for a playing field adapted for receipt of a ball rolled over the field comprising, a pair of spaced walls one set directly behind the other and defining at their ends a pair of

openings to the space between the walls and facing in part the sides of the goal and in part the front of the goal, inclined planes extending upwardly from the field toward said walls to ap-



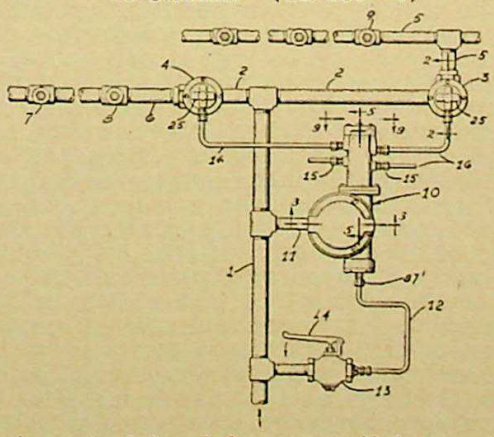
proximately the longitudinal center of the walls, and an elongated ball trough positioned between the upper ends of said planes and extending between said walls and inclined downwardly towards and extending through one of said walls.

2,311,107
UTILITY POCKET KNIFE
Clifford A. De Fraties, Moline, Ill.
Application December 30, 1942, Serial No. 470,546
2 Claims. (Cl. 30—148)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



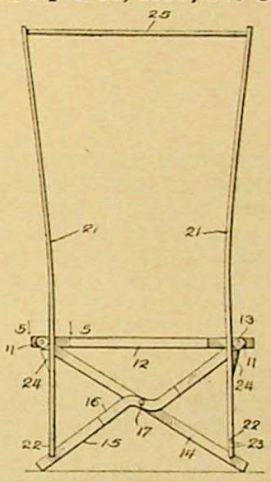
1. As an article of manufacture, a utility pocket knife including a hollow outside handle portion and a telescoping hollow inside handle portion fitted therein; the outside portion comprising a pair of side plates and back portion; a pivot adjacent one end of said handle and a pair of implements mounted on said pivot, one of said implements being a can opener having a side hook; said inside handle portion including a pair of side plates and back portions; a pivot adjacent one end of said handle and a pair of implements mounted on said pivot; each of said handle portions including a notch on the edge of the side plate, said notches being positioned to lie in registry when the inner handle portion is telescoped fully into the outer handle portion whereby the side hook of the can opener may be positioned in both of said notches simultaneously to lock the telescoping handle portions together.

2,311,108
CONTROL DEVICE FOR SEQUENTIAL OPERATION OF SERVICE VALVES
Fred Hauser, Los Angeles, Calif.
Application April 22, 1940, Serial No. 330,980
13 Claims. (Cl. 161—7)



1. A control head for sequential operation of service valves comprising: a fluid-tight casing, a bore within said casing provided with a pressure fluid inlet and a plurality of service ports, a valve member arranged to reciprocate within said casing bore, said valve member being provided with outlet ports, a hollow stem secured to said valve member and protruding through said fluid-tight casing and connecting said outlet ports with the atmosphere, and means for sliding said valve member within said casing bore to sequentially connect said service ports with said valve outlet ports and said hollow stem.

2,311,109
MOSQUITO BAR SUPPORT
Hugh B. Johnson, Rochester, N. Y.
Application August 21, 1942, Serial No. 455,589
7 Claims. (Cl. 5—362)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

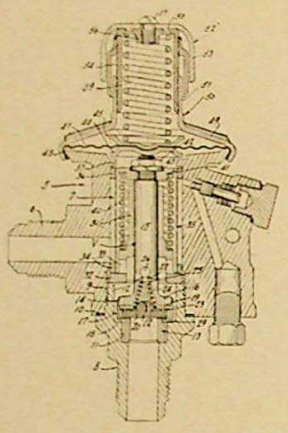


1. In a mosquito-bar supporting frame for a canvas cot having rigid end frame elements, rigid side frame elements, a fabric surface and a plurality of supporting legs, the combination of a mosquito-bar supporting frame comprising two separate cooperating end frame assemblies adapted for attachment to the opposite end frames of the cot, respectively, each of said end frame supporting members including a pair of vertical cornerposts; each of said cornerposts consisting of a single, straight body of rectangular cross section, said post including a cam surface at its lower end adapted to engage cooperating cam surface on the lower portion of one of the legs of the cot to urge the cornerpost upwardly responsive to lateral forces acting on said post; a shoulder on said post at a point spaced above its lower end and adapted to engage the lower surface of one of the frame members of the cot to prevent upward movement of the cornerpost in response to the action of the aforementioned cam surfaces, and a cross brace interconnecting the upper ends of the two cornerposts at one end of the cot to urge them apart and wedge the frame in fixed position.

2,311,110
VALVE
Roy W. Johnson, Milwaukee, Wis.
Application December 9, 1940, Serial No. 369,267
2 Claims. (Cl. 137—153)

1. A control valve comprising a valve body having a chamber, an inlet port to said chamber, an outlet port for said chamber, an upwardly facing valve seat in said outlet port, a valve positioned in said chamber, said valve including a valve stem

having a chambered head at one end, a spring on said stem for urging said valve in one direction, a valve disc loosely mounted in said chambered head and having a flat face engageable with said upwardly facing valve seat, a spring within said chambered head urging said disc toward said seat,



a passageway extending from the exterior of said stem to the interior of said chambered head to establish constant communication between said inlet port and the surface of said disc opposite said flat face, and a pressure operated diaphragm associated with said stem for operating said valve.

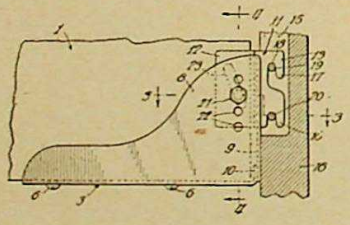
2,311,111

BRACKET FOR BOX SPRINGS

Dwight N. Kelly, Chicago, Ill., assignor to A. Brandwein & Company, Chicago, Ill., a corporation of Illinois

Application July 25, 1940, Serial No. 347,417

4 Claims. (Cl. 5—132)



1. In a connecting device of the kind described and in combination, a bracket comprising a base portion having a pair of elongated substantially parallel slots formed therein and extending transversely thereto, a vertically disposed side member formed integrally with and extending upwardly from said base adjacent a longitudinal edge thereof, said side member having a plurality of vertically spaced openings formed therein, a hanger having a hook-like portion adapted to engage a supporting element and having an offset portion positioned adjacent said vertically disposed side member and relatively movable with respect thereto, said offset portion having an elongated opening formed therein and extending upwardly at an angle to the line of openings formed in said side member to produce a wedging effect when the hanger is connected to the supporting element, said openings in said offset portion of the hanger and in said side member being adapted to receive a bolt for securing said hanger and side member in various relative positions, vertically and horizontally, with respect to each other.

2,311,112

PROCESS FOR MILLING RUBBER

Charles A. Klebsattel, West Orange, N. J., assignor to The Martin Dennis Company, Newark, N. J., a corporation of New Jersey

No Drawing. Application November 21, 1939, Serial No. 305,478

3 Claims. (Cl. 260—761)

1. A method of facilitating the plasticizing of crude rubber during a milling operation, prior to vulcanization, which comprises milling unplasticized crude rubber to which is added an amount of chromic acid which is of the order of about .01% to 1% based on the weight of the rubber.

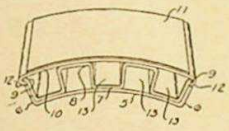
2,311,113

CLUTCH

William H. Klocke, Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio

Application January 17, 1940, Serial No. 314,308

5 Claims. (Cl. 192—107)



1. A friction unit comprising an arcuate metallic shoe adapted for attachment to a pneumatic tire, an arcuate friction member having flanges at the ends thereof, and a spacing member interposed between said shoe and friction member, said spacing member having flanges which are interengaged with the flanges of said friction member.

2,311,114

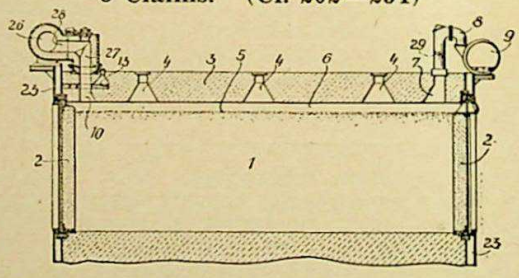
COKE OVEN BATTERY

Heinrich Koppers, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

Application February 29, 1940, Serial No. 321,445

In Germany March 6, 1939

3 Claims. (Cl. 202—254)



1. A masonry battery comprising a series of horizontal coking chambers and heating walls arranged side-by-side in a row, a collecting main longitudinally of the battery at one end of the chambers with ascension pipes thereto from the chambers, gas outlet openings in the battery roof at the opposite ends of the coking chamber, a by-pass gas offtake main separate from the oven brickwork at the side of the battery above the latter roof gas outlet openings, and ascension conduits for connecting the latter roof gas outlet openings of the chambers with the by-pass main, said by-pass main and its ascension conduits comprising conduits innerlined with a lining of insulating refractory masonry consisting of a refractory inner layer, a porous refractory intermediate layer of extremely poor heat conductivity, and an outer insulation of heat insulation material, said ascension conduits being constituted of a body separately removable from the by-pass main and

the oven roof as an integral masonry unit having an interior gas passage comprising a vertical leg forming a continuation of the gas outlet in the oven roof and a lateral leg forming a part of a lateral passage to the by-pass main, said by-pass main having a lateral branch conforming to the lateral leg of the removable body and lined as aforesaid, and means for detachably fitting the removable body in place with the lining of its lateral leg in gas tight alignment with the lining of the lateral branch of the by-pass main and the lining of the vertical leg in gas tight alignment with the roof gas outlet opening masonry in the oven roof, and in which a horizontal recess is provided in the oven roof below the removable body extending inwardly from the outer side of the oven battery beyond the gas outlet, a movable damper in said recess for closing off the roof gas outlet opening from the removable ascension conduit body, and an access passage leading upwardly to the top of the oven roof for access to the damper in said recess.

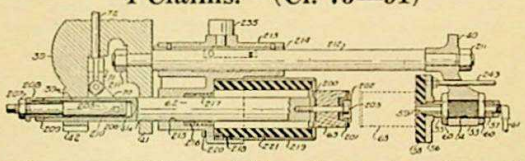
2,311,115

CAN TESTING MACHINE

Frank Krueger, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application July 27, 1939, Serial No. 286,870

4 Claims. (Cl. 73—51)



1. In a machine of the character described, a tester wheel, a can clamping member on said tester wheel, a can enclosing bucket movable into and out of engagement with said member and cam means for mechanically actuating said bucket, said cam means comprising stationary parts and a yielding portion, said portion being adapted to be moved upon failure of said bucket properly to engage said can clamping member, and mechanism associated with said yieldable cam portion and actuated by the movement thereof for stopping said tester wheel.

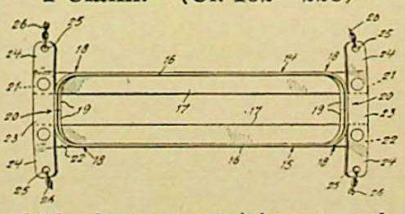
2,311,116

NONSKID SHOE

John B. Lau, Jersey City, N. J.

Application December 18, 1940, Serial No. 370,716

1 Claim. (Cl. 152—228)



A non-skid shoe comprising a substantially rectangular member having the opposed sides thereof formed of complementary angle irons arched lengthwise to conform to the curvature of a tire, said webs of each of said angle irons having their ends separated from each other along the line of intersection to form extensions on said webs, cross-members at the ends of said shoe having the extensions of the base-forming pair of said webs secured thereto, the extensions at the ends of the upright pair of complementary webs being bent toward and into mutual contact with each other to form the opposed ends of said rectangular member, said upright pair of webs and said extensions thereof forming a continuous band-like member whose peripheral wall is of constant height and whose opposed lateral sides provide equidistant rails conforming to the curvature of the tire, and means for securing the shoe to the tire.

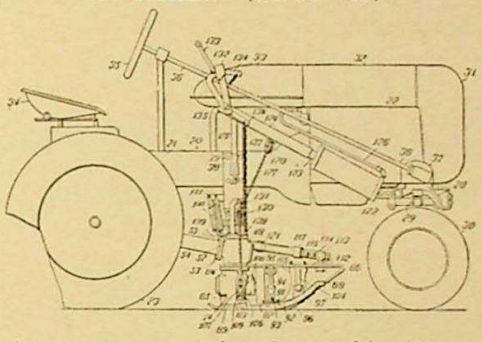
2,311,117

AGRICULTURAL IMPLEMENT

Raymore D. MacDonald, Battle Creek, Mich., and Samuel E. Hilblom, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application July 30, 1941, Serial No. 404,648

24 Claims. (Cl. 56—25)



1. A mower comprising, in combination, a longitudinal wheeled frame, a bracket at one side of the frame between the front and rear wheels, cutting means carried by said bracket and extending laterally of the frame, a support element extending generally longitudinally of the frame, means rigidly connecting one end of said element to the bracket, means pivotally connecting the other end of the element to the frame, a second supporting element extending generally transversely of the frame, means rigidly connecting said one end of said element to the bracket, and means pivotally connecting the other end of said element to the frame, whereby the bracket and the supporting elements have movement as a unit relative to the frame about an axis passing through the aforesaid pivotal connecting means.

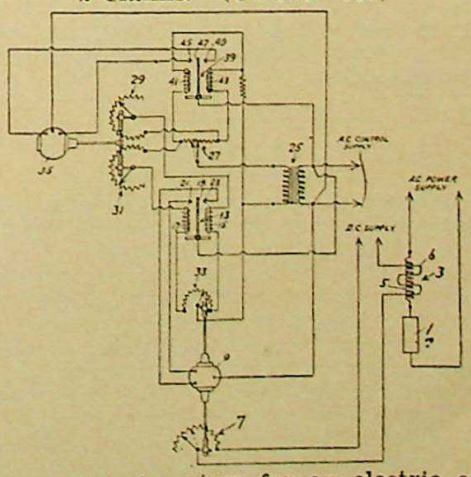
2,311,118

CIRCUIT CONTROL SYSTEM

Edward I. Matthews, Arthur C. Cherksey, and Abraham Scheinfeld, Philadelphia, Pa., assignors to Electric Heating Equipment Company, Philadelphia, Pa., a corporation of Delaware

Application July 10, 1940, Serial No. 344,698

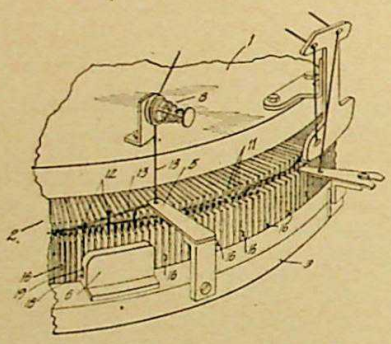
2 Claims. (Cl. 171—242)



1. In a control system for an electric circuit

of the character described, in combination, means for varying the operating condition of said circuit, a reversible electric motor for actuating said means, a relay provided with a pair of opposed actuating coils and adapted to control energization of said motor selectively in forward or reverse movement, a Wheatstone bridge circuit including said relay coils in opposite legs thereof and also including a control potentiometer responsive to change in the system being controlled, a variable resistance in said bridge circuit, a second reversible electric motor for actuating said last named resistance to unbalance said bridge circuit, a second relay adapted to control energization of said second motor selectively in forward or reverse movement, and means including the above mentioned potentiometer for controlling the actuation of said second relay.

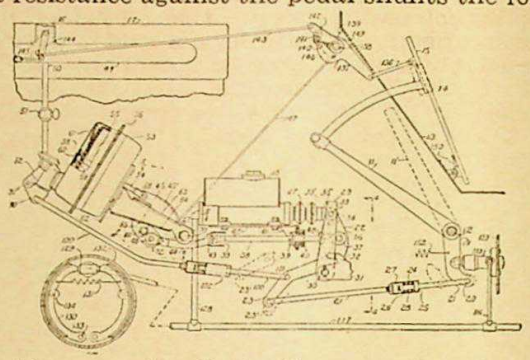
2,311,119
KNITTING MACHINE
Lester A. Miller and Clifton C. Foil, Pittsfield, Mass.
Application February 7, 1940, Serial No. 317,626
6 Claims. (Cl. 66—12)



1. A knitting machine comprising a multiplicity of latch needles arranged in a single circle, a cam block adapted to carry cams for actuating said needles, a cam exterior of said cam block, a plurality of said needles spaced circumferentially around said machine, with other needles therebetween, being provided with butts adapted to cooperate with said exterior cam for raising and lowering said spaced needles independently of the cams in said block, means for guiding a yarn into the hooks of said butted needles when in raised position and means for guiding that portion of the yarn extending between said butted needles behind the needles positioned between said butted needles when said butted needles are lowered by said cam; whereby said portion of yarn will be laid substantially straight along the surface of one side of the fabric knitted by said machine.

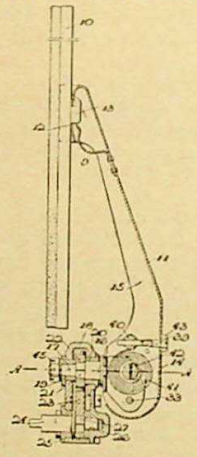
2,311,120
BRAKE OPERATOR
Bernard H. Mossinghoff, Chicago, Ill.
Application January 30, 1939, Serial No. 253,485
40 Claims. (Cl. 192—3)

1. In a vehicular braking system, an element movable for brake application, power means to move the element, a brake pedal normally held in low short-stroke position, tension means connected to favor the pedal's retraction over operation of the element, and mutually reactive interconnections between said element, means and pedal, said interconnections and the relative forces being such that the operating force from the power means predominates to urge retraction of the pedal to a longer-stroke position, whereas foot resistance against the pedal shunts the force



of said means to effectually move the element for brake application.

2,311,121
WINDSHIELD WIPER DRIVE
Henry C. Nette, Rutherford, and Myron L. Taylor, West Englewood, N. J., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 9, 1941, Serial No. 414,366
6 Claims. (Cl. 15—255)

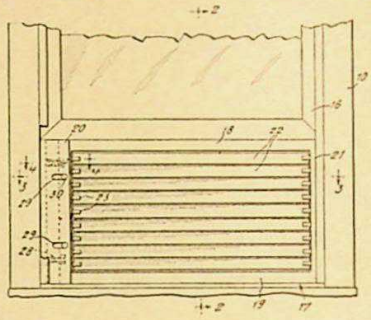


1. A windshield wiper drive of the oscillatory type comprising a first shaft having means for connecting it to a source of power, a second shaft geared to said first shaft, a yoke member carried on said second shaft, a slotted bar member extending athwart said yoke member, a spiral spring having its inner end carried by said slotted bar, a wiper arm, a connection between the outer end of said spring and said wiper arm, and a pivotal connection between an extremity of said yoke and an extremity of said wiper arm.

2,311,122
WINDOW VENTILATOR
Charles J. Niesner, Dawson, N. Dak.
Application December 27, 1940, Serial No. 371,969
1 Claim. (Cl. 98—99.8)

A window ventilator comprising a substantially rectangular frame comprising side members and upper and lower horizontal members, one of said side members comprising a channel-shaped member having its open side facing the frame and a vertical rail horizontally slidable therein, a plurality of spaced shutters pivotally mounted between said rail and the other of said side members, a cylindrical nipple on the rear wall of said channel-shaped member, said rail having a cylindrical recess of greater diameter than said nipple on its outer side positioned horizontally

opposite said nipple, and a coiled spring loosely nested at one end in said recess and at the other end encircling said nipple, said channel-shaped member having a pair of horizontal slots cut through the opposed front and rear webs thereof at the same horizontal level, said rail having a



rigid horizontal pin extending therethrough at right angles to and in the same plane as said horizontal slots with the extremities thereof extending beyond the front and rear walls of the rail, said extremities of said pin registering slidably in said slots.

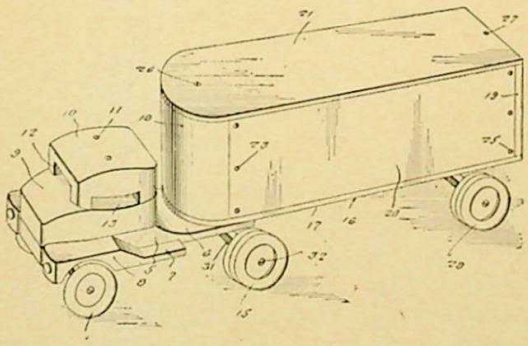
2,311,123

TOY TRAILER TRUCK

Thomas Vivian Osborne, Greensboro, N. C.

Application March 21, 1942, Serial No. 435,609

3 Claims. (Cl. 46—201)



1. A toy of the class described comprising a tractor unit and a trailer unit, said trailer unit comprising a bottom, front and rear end walls, side walls and a top, said front end wall being of semi-cylindrical form and said front and rear walls having rabbeted side edges adapted to receive the ends of the side walls for positioning flush with the outer surfaces of the front and rear walls, fastening means securing said side walls to the end wall and fastening means for securing the top to the front and rear wall, and means for swingably supporting the front end of the trailer on the tractor and comprising a screw projecting upwardly through the bottom of the trailer into the front end wall and having its head projecting below said bottom, and said tractor having a recess in its upper surface adapted to swivelly receive the head of said screw.

2,311,124

WAVE BAND SWITCHING

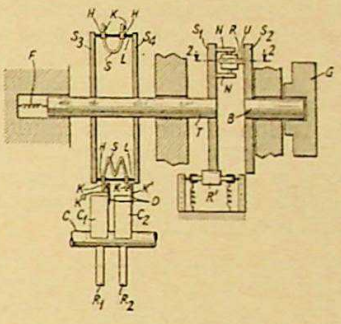
Erich Paschke, Berlin-Neukoelin, Germany; vested in the Alien Property Custodian

Application July 12, 1939, Serial No. 283,991

In Germany July 18, 1938

3 Claims. (Cl. 200—1)

1. In a switching device of the type provided with a rotatable drum carrying on its periphery a plurality of spaced contacts which are adapted to selectively cooperate with a stationary contact, mechanism to enable the successive engagement with the stationary contact of the contacts carried by the drum without the use of sliding contact therebetween comprising driven and driving shafts which are axially disposed in spaced relation, the driven shaft having mounted thereon the contact carrying drum, a disk carried by each of said shafts at their adjacent ends, and a cam and a follower carried respectively by opposing faces of said disks so constructed and arranged to provide distinct slidable and rotatable motions of the driven shaft upon rotary mo-



tion of the driving shaft, that during the initial rotation of the driving shaft through a predetermined range the driven shaft and incidentally the drum and its contacts are shifted axially a sufficient amount to disengage one of the latter contacts from the stationary contact, continued rotation of the driving shaft imparting rotary motion to the driven shaft while still in its axially shifted position, the driving shaft at its next position of adjustment permitting the driven shaft to return to its normal position thereby enabling another of the contacts carried by the drum to engage the stationary contact.

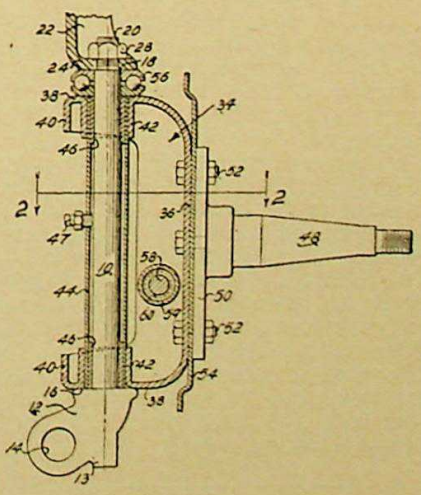
2,311,125

STEERING KNUCKLE

Ross H. Phelps, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application November 25, 1940, Serial No. 366,989

20 Claims. (Cl. 280—96.1)



1. In an automotive wheel suspension, a steering knuckle formed of sheet metal and pressed to form a flat side having generally flat upper and lower ends extending transversely away from said side, and a continuous flange formed around all edges of said stamping.

2,311,126
FLUX FOR MAGNESIUM AND MAGNESIUM ALLOYS

Percival Robert Charles Pyle, Warmley, near Bristol, and Nelson Conroy Sheppard, Fishponds, Bristol, England, assignors to Magnal Products Limited, Warmley, near Bristol, England

No Drawing. Application December 23, 1941, Serial No. 424,194. In Great Britain February 6, 1941

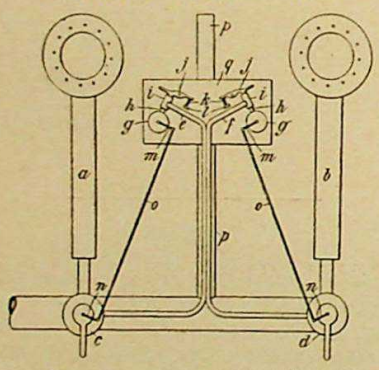
5 Claims. (Cl. 75—67)

1. The process of producing fluxes adapted for use in the melting, refining and casting of magnesium and alloys rich in magnesium, which comprises preparing an intimate mixture of ammonium chloride, a chloride of an alkaline base, and a basic compound of magnesium, and subjecting the mixture to heat treatment whereby progressive fusion of the mass results at a temperature below the melting point of the chloride of the alkaline base itself and maintaining the mixture at about the fusion temperature until all the ammonia has been driven off.

2,311,127
GAS BURNER

Mechel Rabinowicz, London, England, assignor of one-half to Israel Xyel Kestenbaum, London, England

Application October 11, 1938, Serial No. 234,499
In Great Britain October 16, 1937
4 Claims. (Cl. 158—115)



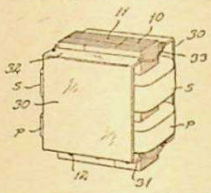
1. A gas burner arrangement comprising in combination a plurality of main burners, pilot burners, one for each main burner, arranged in proximity to one another to form a unit separate from the main burners and directed so as to project igniting flames towards the associated main burners, manually actuated taps, one for each main burner, for controlling the gas supply to each burner independently, a gas supply pipe for each pilot burner connected up to the tap of the associated main burner, said tap including a rotatable plug portion having a separate groove for controlling the gas supply to the pilot burner capable of admitting a full supply of gas to the pilot burner to maintain the pilot flame at its maximum length at any degree of opening of the tap, and individual lighting devices for said pilot burners located in proximity thereto and operatively connected to the gas taps for igniting the gas issuing from the pilot burners on the respective gas taps being actuated.

2,311,128
TRANSFORMER

Percival K. Ranney, Lakewood, Ohio

Application March 24, 1941, Serial No. 384,836
3 Claims. (Cl. 171—119)

1. In a transformer, the combination of a closed circuit core, a pair of primary coils respectively on two legs of the core, a pair of secondary coils respectively on the same two legs of the core, a shunt between the legs located between the primary and secondary coils, one or more shunts disposed outside the coils and

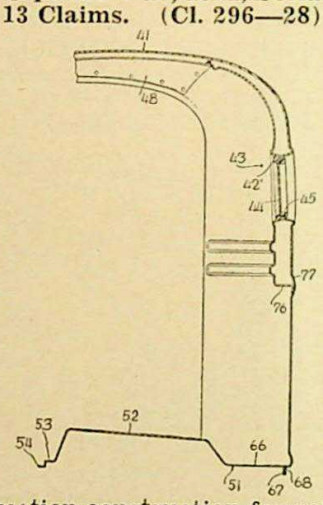


each comprising one or more channel shaped plates having an inturned portion at one end extending toward the core beyond the secondary and an inturned portion at the other end extending toward the core beyond the primary, and a case containing the transformer.

2,311,129
VEHICLE BODY CONSTRUCTION

Donald G. Renno, New Haven, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application September 18, 1941, Serial No. 411,272
13 Claims. (Cl. 296—28)

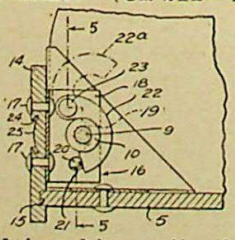


1. A rear section construction for cabs for automotive vehicles comprising an outer rear panel including a back portion and integral side portions and an inner rear panel spaced from the outer panel, said inner panel having a horizontal flanged portion secured to an intermediate portion of the outer panel, spaced vertical flanged portions secured to the back portion of the outer panel adjacent the side portion and outwardly extending vertical flanges secured to the forward edges of the side portions of the outer panel to form door pillars.

2,311,130
REVOLVING BIN

Philip Rosenberg, New York, N. Y.

Application October 13, 1942, Serial No. 461,848
4 Claims. (Cl. 211—131)



4. In a revolving bin unit, the combination

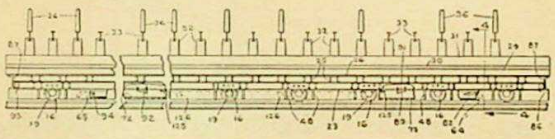
with a permanent divider and an outer wall segment of means for attaching the wall segment rigidly but removably to the divider, comprising an inwardly projecting ear on the wall segment having an inwardly opening slot formed in it, and an opening formed in it at a substantial distance from the slot, a stud device on the divider having a relatively large head member and a relatively restricted shank member, the latter adapted to be received in the ear slot, a boss on the divider adapted to seat in the opening of the ear when the ear is moved into assembled position, and a latch carried by the ear and operable into position between the ear and the head member of the stud device to prevent side play of the ear when the parts are in assembled relation.

2,311,131

MEANS FOR CONTROLLING MOVEMENT OF TRUCKS INTO AND FROM HEATED CHAMBERS OF FURNACES

Charles W. Rudolph, Chicago, Ill., assignor to Diamond Iron Works, Incorporated, Minneapolis, Minn.

Application July 1, 1942, Serial No. 449,368
11 Claims. (Cl. 104—50)



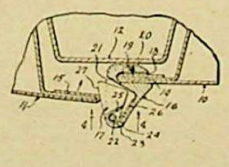
1. In a material-supporting truck adapted to be moved into and from a heated chamber of a furnace, a power means outside of the furnace embodying a constantly driven member, a floating truck mounted to move along the frame of the material-carrying truck, a draft member carried by said floating truck and adapted to be moved therewith from the body of the material-carrying truck to make draft connection with the constantly driven member, and means for locking the floating truck to the material carrying truck.

2,311,132

SAFETY DOOR CATCH

William N. Schnell, Detroit, Mich.

Application January 18, 1939, Serial No. 251,449
7 Claims. (Cl. 292—219)



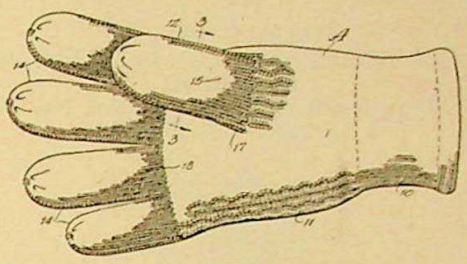
1. A catch to be used on a vehicle of the type having, on either side, two doors which close to one pillar and each of which has an outside surface flange overlapping said pillar, comprising a first portion to be fastened to the flange of one door, and a second portion movable on said first portion and normally extending past the edge of the second door on the same side, whereby said second door may not be opened except when said first door is open, said second portion being movable on said first portion and arranged to cooperate with said second door whereby said second portion will be temporarily and automatically shifted from its normal position when said second door is closed after the first door.

2,311,133

GLOVE

Carl F. Schuessler, Chicago, Ill.

Application January 17, 1942, Serial No. 427,150
10 Claims. (Cl. 66—174)



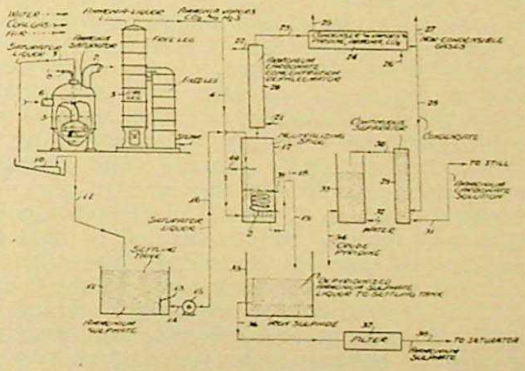
1. A knitted glove of the character set forth, having its front side provided with an area of close stitches and having the portion of its back side aligned with said area of close stitches provided with a flexing area of relatively loose stitches.

2,311,134

CONTINUOUS RECOVERY OF PYRIDINE

John W. Schutt, North Arlington, N. J., assignor to Koppers Company, a corporation of Delaware

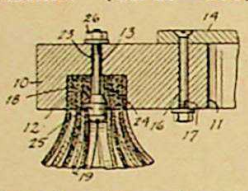
Application December 8, 1939, Serial No. 308,237
14 Claims. (Cl. 260—290)



1. A process for continuously recovering pyridine from the saturator bath liquor of an ammonium sulphate process, said process comprising: continuously withdrawing a portion of the saturator bath liquor from the saturator bath at a rate sufficient to maintain the vapor pressure of the pyridine fraction above the bath such that substantially all of the pyridine fraction contained in gas when passing through the bath is recovered by the bath from the gas; introducing into the so-withdrawn liquor to liberate the pyridine fraction present therein ammonia still vapors that are predominantly ammonia and contain carbon dioxide and hydrogen sulphide; distilling the mixture; dephlegmating the evolved vapors thereby to concentrate ammonia and carbon dioxide contained therein to an extent at which the aqueous fraction of the exit vapors will contain a sufficient concentration of ammonium carbonate to separate from the fraction containing pyridine by gravital separation when later condensed together; cooling the so-dephlegmated exit vapors to condense the aqueous fraction and the fraction containing pyridine; separating from each other by gravital separation the aqueous fraction and the fraction containing pyridine; continuously removing the gravitally separated fraction containing pyridine from the aqueous fraction; separating iron sulphide and other impurities from the distillation residue; and, con-

tinuously returning the substantially iron-free and pyridine-free ammonium sulphate solutions back to the saturator system.

2,311,135
ROTARY BRUSH
Samuel Steinmetz and Isaac E. Schine, Bridgeport, Conn.
Application January 9, 1941, Serial No. 373,792
3 Claims. (Cl. 15—230)



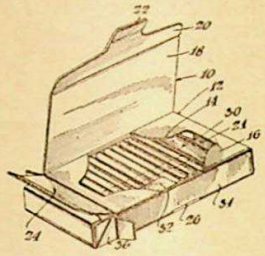
1. In a brush, a head member having a substantially cylindrical walled pocket in one side and a central hole extending from the end of said pocket to the opposed side of said head member, a brushing element engaged in said pocket and comprising a strip of flexible material spirally wound to form a substantially cylindrical plug portion for engagement with the cylindrical wall of said pocket and a projecting brushing portion, there being a central passage in said plug portion axially aligned with said central hole in said pocket and laterally aligned with the cylindrical wall of said pocket, said projecting brushing portion having a series of cuts extending transversely of the strip from one longitudinal edge thereof to said substantially cylindrical plug portion providing a series of spirally arranged flexible tongues flaring outwardly from the axis of said brushing element, a securing bolt extending upwardly through said passage and engaged through said hole in the end of said pocket to removably secure said brushing element in said pocket, and wedging means carried by said bolt engaging said passage in lateral line with the cylindrical wall of said pocket and adapted upon tightening of said bolt to wedgingly engage and expand said passage and laterally compress said plug portion between said wedging means and said cylindrical wall of said pocket.

2,311,136
LATEX COMPOSITION
Robert R. Sterrett, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 11, 1940, Serial No. 339,883
6 Claims. (Cl. 260—740)

1. A latex composition containing milk and material from the group consisting of ammonium and alkali-metal oxalate.

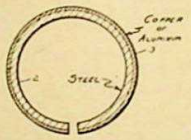
2,311,137
COLLAPSIBLE TAMPERPROOF BOX AND TRAY, PRIMARILY FOR CIGARS
Frederick A. Sunderhauf, Rutherford, N. J., and Frank W. Broderick, New Brighton, N. Y., assignors to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application September 9, 1939, Serial No. 294,100
1 Claim. (Cl. 229—16)

In a tamper-proof shipping container, comprising an open tray member and a collapsible outer carton comprising bottom, side walls and top member, a new sealing means therefor comprising an extension on said tray to overlie one wall of said outer carton, an extension integral with the top of said outer carton to overlie said first extension member and to hold it from being raised, said top extension adapted to be locked



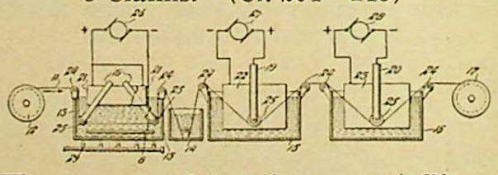
in position by a single seal, thereby providing a lock to prevent removal of said tray without the breaking of said extension member or said seal.

2,311,138
CONDUCTOR
Carl E. Swartz, Cleveland, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Application March 15, 1939, Serial No. 262,070
12 Claims. (Cl. 174—132)



1. A tubular conductor having a high capacity for carrying alternating currents comprising a strip of steel and a strip of metal of substantial thickness and of relatively high conductivity superimposed directly thereon against one side thereof and substantially integrally and uniformly bonded directly thereto all over their contacting surfaces, said high conductivity metal lying on the outer surface of the tubular conductor and having a dense compacted structure and smooth outer surface, resulting in a higher current carrying capacity.

2,311,139
PROCESS FOR THE ELECTROLYTIC CLEANING OF METALS
Urlyn Clifton Tainton, Baltimore, Md.
Application October 21, 1938, Serial No. 236,340
5 Claims. (Cl. 204—145)



1. The process of treating a metallic article comprising the steps of placing said article in circuit and subjecting it to electrolysis as an anode in a molten bath of a compound of a metal of the group consisting of the alkali and alkali earth metals adapted to preliminarily treat the surface with an oxidizing action preparatory to subsequent de-oxidation, continuing said anodic treatment for a time sufficient to oxidize any grease, carbon or the like adhering to the said metallic article, then subjecting said article in electrical circuit to electrolysis as a solid cathode in a bath of a molten compound of a metal of the group consisting of the alkali and alkali earth metals adapted to be liberated at the surface of the cathode in said electrolysis, and subjecting the article to the action of said molten bath of the compound at a temperature below the boiling point of the liberated metal and

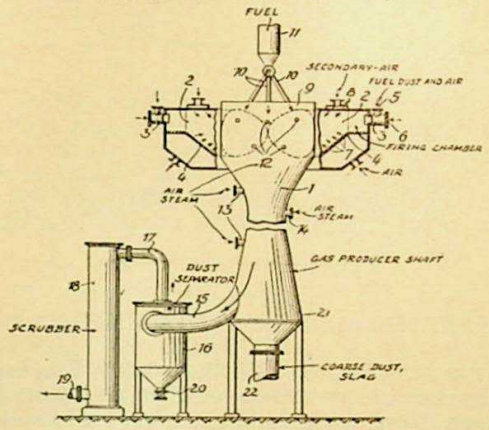
sufficiently in excess of the fusion point of the molten compound to dissolve the liberated metal in said bath and avoid a deposit of said metal on said article, maintaining said treatment for sufficient time to completely reduce oxides, scale and the like while the article is in the bath and then delivering said treated article from said molten bath free of any sensible deposit of said dissolved metal.

2,311,140

MANUFACTURE OF PRODUCER GAS

Friedrich Totzek and Joseph Daniels, Essen, Germany, assignors, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

Application April 26, 1939, Serial No. 270,076
In Germany April 28, 1938
9 Claims. (Cl. 48—73)



1. Apparatus for the production of valuable fuel gas from finely grained or dusty fuels comprising a reaction chamber having essentially the shape of a vertical shaft; a firing chamber separate from the reaction chamber, said firing chamber having burner means for burning primary air and fuel and secondary combustion air-supply means for secondary combustion of the gases of combustion, and said firing chamber communicating with the reaction chamber to deliver the combustion gases to the reaction chamber at its upper part; means for offtake of reaction gas at a lower part of the reaction chamber; and means for feeding finely grained dusty fuel to the reaction chamber, said latter means being arranged to deliver the fuel directly into the gas issuing from the firing chamber as it enters the upper part of the reaction chamber, for co-current flow of the gas and fuel through the reaction chamber to its gas outlet, and in which the reaction chamber is of enlarged area adjacent the firing chamber and gradually decreases in area from the enlarged area towards the vertical middle section of the shaft, and then continues on towards the lower gas outlet and is gradually widened in area from the vertical middle section of the shaft to the lower gas outlet, and in which the gas outlet is constituted of a downwardly and outwardly inclined conduit, and in which the outlet is communicably connected with a fine dust separator, and the lower end of the reaction chamber below the gas outlet constitutes a receiver for the coarse dust.

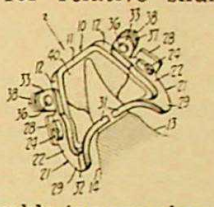
2,311,141

DENTAL SEPARATOR

Harry A. True, San Francisco, Calif., assignor to Board of Trustees of College of Physicians and Surgeons, San Francisco, Calif., a public trust

Application March 26, 1940, Serial No. 326,001
3 Claims. (Cl. 32—64)

1. A dental separator comprising an arched frame terminating in opposed end portions displaced laterally with respect to the central portion of the frame, said end portions being adapted for positioning along the labial and lingual sides of the teeth respectively and terminating in opposed fixed jaws, and a movable jaw member associated with each of said fixed jaws and connected thereto for relative sliding movement,



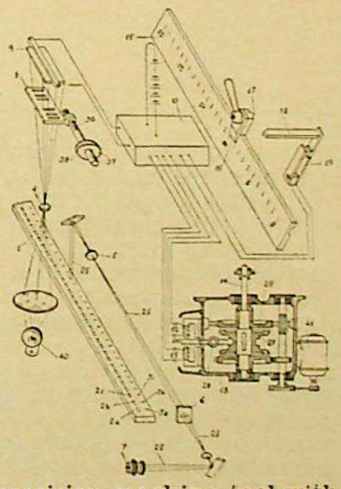
each of said movable jaw members having an end portion extending downwardly and then upwardly and inwardly to provide a movable jaw in alignment with the associated fixed jaw, said downwardly and then upwardly extending portions forming recesses providing for access to the teeth with which said jaws are engaged in a direction laterally of the teeth.

2,311,142

PRECISION MACHINE TOOL

Fernand Turrettini, Bellevue-Geneva, Switzerland, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland, a firm of Switzerland

Application February 11, 1942, Serial No. 430,470
In Switzerland December 28, 1940
9 Claims. (Cl. 192—143)



1. In a precision machine-tool with motor and comprising at least one sliding table which can be brought into a predetermined working position by imparting to it first a fast motion followed by a slow motion, an auxiliary scale, a sliding index along said scale, an organ operated by said sliding index to control the change-over gear of the table from fast to slow motion, a precision setting device comprising a fine graduation, a photo-electric cell facing the latter, between both of them a grid whose opaque and open to light spaces correspond to the tracing of the fine graduation, and finely a source of light producing a beam which, after having passed the graduation and the grid acts on the cell; a control operated by the latter to stop the table automatically exactly in the required position, and a mechanism enabling to bias the setting device in order to take into account the fractions of units in the precision setting, the whole with the purpose to reduce automatically the driving speed of the motorized table, when the latter comes near to its working position and to stop it automatically in this position.

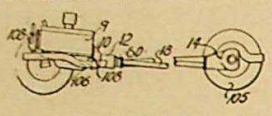
2,311,143

TORQUE TUBE DRIVE

Nils Erik Wahlberg, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application May 22, 1940, Serial No. 336,604

20 Claims. (Cl. 180—73)



1. In an automobile having a propeller shaft arranged to operate within a torque tube rigidly fastened to a differential housing, a transmission having a shaft extending therefrom, a universal joint connecting said propeller shaft and said transmission shaft, a trunnion threaded on said torque tube, a connecting member secured to said transmission, a pair of bolts connecting said trunnion and said connecting member, and flexible means surrounding said bolts and spacing said bolts and trunnion from the connecting member.

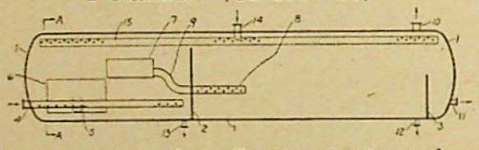
2,311,144

APPARATUS FOR HYDROCARBON ALKYLATION

Henry P. Wickham, Glen Head, and Myrle M. Perkins, Brooklyn, N. Y., assignors to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware

Application January 29, 1941, Serial No. 376,466

4 Claims. (Cl. 196—46)



1. An apparatus for effecting hydrocarbon alkylation in the presence of a sulphuric acid catalyst which comprises a closed vessel partitioned into at least two liquid compartments, an inlet connection terminating inside and near the bottom of one of said compartments in a plurality of constricted openings adapted to emulsify liquid mixtures introduced therethrough, an emulsion outlet connection accessible from said compartment only at a higher level than that at which said inlet connection terminates, a hydrocarbon outlet connection accessible from said compartment only at an appreciably higher level than at which said emulsion outlet connection is accessible, a conduit leading from said hydrocarbon outlet connection into a second compartment of said vessel, a connection for withdrawing hydrocarbons from said second compartment which is accessible only at a level appreciably above the bottom thereof, and a connection for withdrawing catalyst liquid from the bottom of said second compartment.

2,311,145

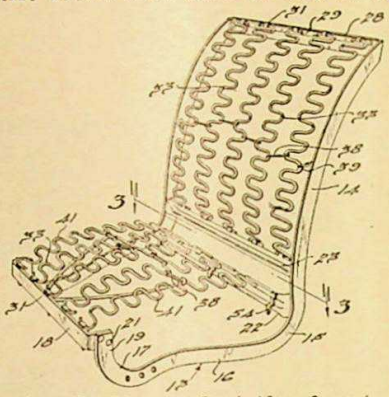
SEAT CONSTRUCTION

Charles H. Widman, Detroit, and Noble C. Clark, Pleasant Ridge, Mich., assignors to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application May 15, 1939, Serial No. 273,616

10 Claims. (Cl. 155—179)

10. The combination with spaced interconnected L-shaped frame elements, spring strips arched across the vertical extending back portion of the frame, additional springs and strips arched across the horizontal seat portion of the frame, trim material formed in a pouch drawn over said back portion, additional trim material secured to said pouch material and extending forwardly from the bottom edge of said back trim material over said seat portion, tongues extending from the interconnecting portions of the frame at the front and rear of the base portion



thereof, and rods disposed at the front and back edges of said seat trim material and secured by said projecting fingers for anchoring the seat and pouch material, the side edges of the seat trim material being wrapped about the endmost spring strips to provide anchoring means therefor.

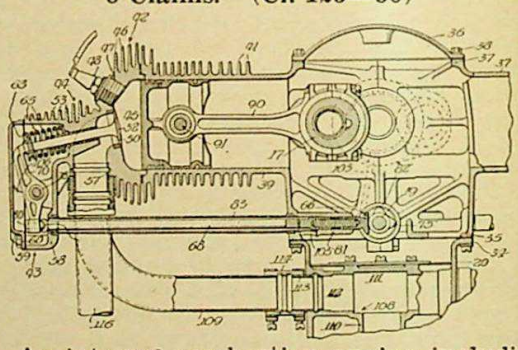
2,311,146

INTERNAL COMBUSTION ENGINE FOR AIRCRAFT

Clarence H. Wiegman, Williamsport, Pa., assignor, by mesne assignments, to The Aviation Corporation, New York, N. Y., a corporation of Delaware

Application June 10, 1939, Serial No. 278,415

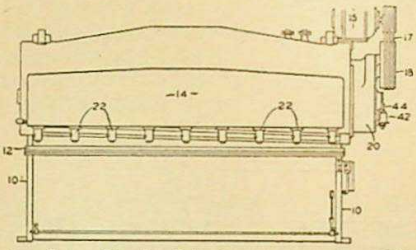
8 Claims. (Cl. 123—56)



1. An internal combustion engine including a pair of complemental horizontally extending castings disposed in side by side and abutting relation and having the inner parts thereof shaped to form an open top and open bottom crank case and comprising laterally spaced side walls and pairs of aligned and abutting front and rear walls, and having the outer parts thereof formed integrally with said inner parts respectively and shaped to form oppositely extending cylinders with their inner ends in communication with the crank case interior, horizontal through-bolts extending longitudinally through the front walls and horizontal through-bolts extending longitudinally through the rear walls for removably securing the two castings together, a separately formed sump for lubricant disposed beneath and serving to close the open bottom of the crank case and having a top flange in abutment with the bottom marginal portions of the inner parts of the two castings and connected removably thereto by vertical bolts, a separately formed cover plate for closing the open top of the crank case provided with a marginal flange in abutment with the upper marginal portions of said inner

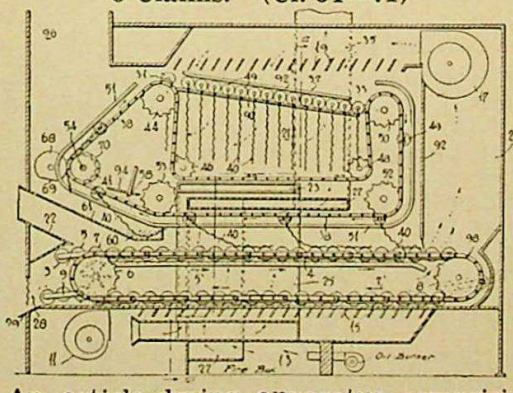
parts of the castings and connected removably thereto by means of vertical bolts, a crank shaft extending through the crank case in parallel relation with the side walls and having its front end journaled in a front bearing between the front walls and its rear end journaled in a rear bearing between the rear walls, and pistons slidably mounted in the cylinders and connected operatively to the cranks of the crank shaft.

2,311,147
HYDRAULIC HOLD-DOWN
Larkin R. Williamson, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Original application January 9, 1939, Serial No. 249,890, now Patent No. 2,269,328, dated January 6, 1942. Divided and this application August 14, 1941, Serial No. 406,829
4 Claims. (Cl. 164—110)



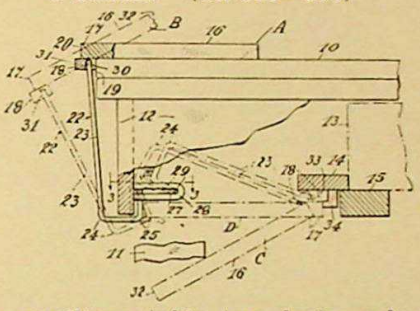
1. In a hydraulic hold-down a plurality of cylinders, each comprising a piston responsive to fluid pressure, said piston having a concave top, a diaphragm shaped snugly to fit said top and having side portions laterally enclosing said top and extending radially covering the upper end of the wall of said cylinders, a cap on top of said diaphragm shaped to fit the contour thereof, a second cap for sealing the flanges of said diaphragm to the ends of said cylinder walls, a spring in said cylinders normally holding the piston in retracted position and a stop between said first cap and said second cap for holding the former in place.

2,311,148
ARTICLE DRYING APPARATUS
Broadus Wilson, Miami, Fla.
Application April 9, 1941, Serial No. 387,754
8 Claims. (Cl. 34—71)



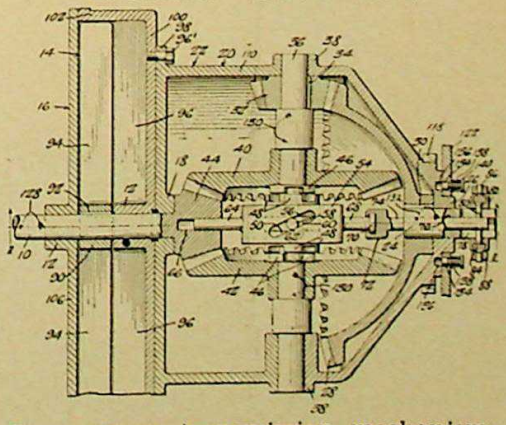
1. An article-drying apparatus comprising a main chamber, an endless conveyor within said chamber for passing articles to be dried therethrough, means for operating the said conveyor, a series of wiping units, cyclic means for continuously passing the series of wiping units at a uniform rate of travel over the upper run of the said conveyor in a direction of travel opposite to that of the said upper run, a wiping-unit drying section within said main chamber, means for passing the said wiping units through said drying section at a rate of travel slower than said uniform rate of travel, means for transferring the wiping units to the last-mentioned means, and means for synchronizing the movement of the wiping units through said drying section with said cyclic means, and to return said wiping units to said cyclic means with continuous feed.

2,311,149
AUXILIARY TABLE TOP
Joseph Worth, Flushing, N. Y., assignor to D. F. H. Novelty Furniture Co., Inc., Brooklyn, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,430
3 Claims. (Cl. 311—103)



1. An auxiliary table top device adapted to fit on a table having a top and an apron beneath the top, said device including a board to lie on the table top, a bail on which the board is pivoted at one end, slotted bracket ears adapted to fit inside the apron, pivots on the bail adapted to be inside the slots at one end to hold the board against sliding and slidable to the other end of the slot, to carry the board rearwardly under the table top as the board turns upside down, and U-bends in the bail between the board and the pivots passing under the edge of the apron and adapted to swing up and against the apron to thrust the pivots to said other end and carry the board rearwardly.

2,311,150
DIFFERENTIALLY BALANCED TORQUE TRANSMISSION
Casimer J. Buraczynski, Milwaukee, Wis.
Application November 10, 1941, Serial No. 418,559
12 Claims. (Cl. 74—189.5)



1. In a power transmission mechanism, the combination of a drive member and a driven member, differential gearing operatively connecting the drive member with the driven member, a rotary support for the differential gearing including a fluid chamber, fluid transmission means inside said chamber fixedly related to said support, fluid transmission means inside said cham-

ber fixedly secured to said drive member to rotate therewith relatively to said first-mentioned fluid transmission means, means acting on said support to restrain the latter from negative rotation but permitting rotation in the same direction, a reversing gear, and means operatively connecting and disconnecting said reversing gear into and out of said differential gearing.

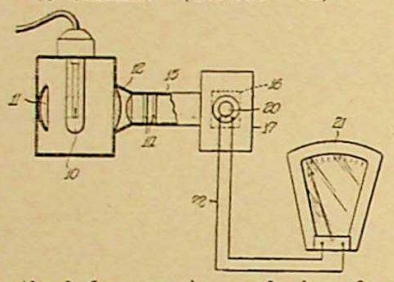
2,311,151

ANALYSIS OF SOIL SAMPLES FOR DETERMINING OIL CONTENT

John G. Campbell, Houston, Tex., assignor to Ralph H. Fash, trustee, Fort Worth, Tex.

Application May 10, 1940, Serial No. 334,341

9 Claims. (Cl. 250—71)



1. A method for use in exploring for petroleum oil, which consists in preparing an extract by treating an earth sample with an oil solvent to extract from said sample any petroleum oil contained therein, subjecting the extract to ultraviolet light to produce a fluorescent effect of an intensity proportional to the amount of oil contained in the extract, measuring the intensity of said fluorescent effect to obtain a quantitative determination of the amount of oil in the earth sample, and in adjusting the result thus obtained as to oil content to express the result as an amount of oil per unit area, to thereby compensate for variations in the surface area of the earth particles comprising the sample.

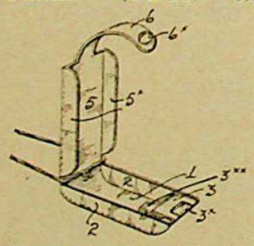
2,311,152

TAG SEAL

Morris Canter, New York, N. Y.

Application March 9, 1942, Serial No. 433,956

2 Claims. (Cl. 292—325)



1. A tag seal comprising a bottom section and an upper section formed of a unitary piece of sheet metal, the sections having side walls so formed that the side walls of one section may be placed within the side walls of a second section, one of said sections carrying an inwardly directed wall carrying a depending lip, the wall and lip comprising a unitary strip bent upon itself to form a plural-wall structure, said inwardly directed wall being formed with an aperture, and the second section carrying a tongue formed with a line-receiving aperture.

2,311,153

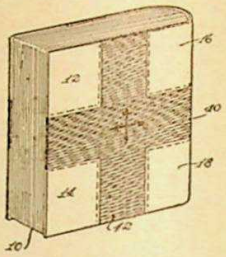
SELF-ADJUSTING BOOK COVER

Ralph Carlo, Tujunga, Calif.

Application June 17, 1941, Serial No. 398,469

5 Claims. (Cl. 281—34)

1. A self-adjusting book cover comprising a strip of two-way stretch elastic material adapted to extend across the outer covers and the back of a book and to be folded in, across and in gripping relationship with the book covers, complementary sections of relatively non-elastic material stitched to the elastic material, said non-elastic sections positioned at the corners of the book, a further section of stiffening mate-



rial applied to the cover, and adapted to extend from the edge of one book cover to the edge of the other cover and across the back of the book, and in adjacent relationship to the corresponding strip of two-way stretch elastic material, and other strips of two-way stretch elastic material extending transversely from the top of the book to the bottom thereof.

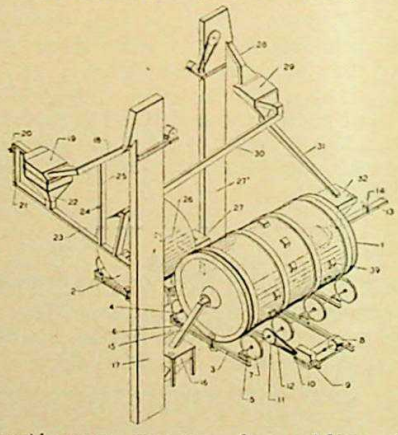
2,311,154

PROCESS FOR AGGLOMERATING COMMERCIAL CARBON BLACK

Samuel C. Carney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application February 28, 1939, Serial No. 259,065

10 Claims. (Cl. 23—314)



1. A continuous process for adding flocculent carbon black by accretion to granules already formed in which amorphous feed is introduced into the process in every part of which is continuously retained a mass of previously formed granules of carbon black, 75% by weight of which is larger than 60 mesh, and agglomerating the amorphous black to the granules by subjecting the mixture to motion whereby the particles move by the force of gravity.

2,311,155

HEAT EXCHANGE APPARATUS

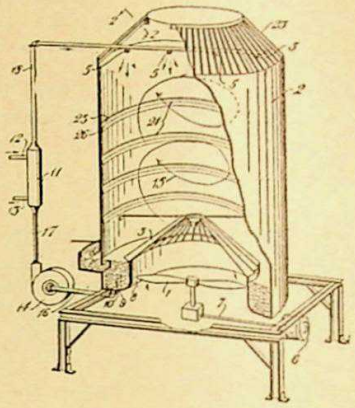
Clifford H. Carr, Kansas City, Mo.

Application March 26, 1938, Serial No. 198,239

3 Claims. (Cl. 261—30)

1. A heat exchange apparatus comprising an upright casing having vertical openings in its ends, fluid distributing apparatus substantially at the upper end of said casing to evenly distribute fluid in comminuted form throughout the area of said casing for gravitation downwardly,

a propeller fan of large diameter mounted coaxially with the lower end of the casing and designed to impel air vertically into said casing, means above said fan for causing said air to



spiral smoothly upwardly and thus make the length of travel in contact with the comminuted fluid greater than the vertical distance between said deviating means and the upper end of said casing.

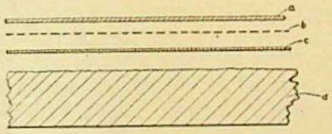
2,311,156

DECORATING AND MOLDING OF TRANSPARENT SHEETS

Lloyd V. Casto, Detroit, Mich.

Application September 6, 1940, Serial No. 355,689

11 Claims. (Cl. 18—61)



1. The method of forming predecorated articles having finished surfaces comprising forming a transparent film-like sheet of material having a base of cellulose acetate, applying to one side of the film-like sheet a decorative design in the form of an intaglio transfer comprising an ink containing a toluene-sulfonamide-formaldehyde resin, applying over the design on the film-like sheet a coating of material which is capable of ready bonding with the sheet material and the ink, placing the film-like sheet thus decorated in a forming apparatus and applying pressure to the sheet to draw it to a desired shape and thereafter applying a back-up material by the use of heat and pressure to said coating material, the back-up material having mold flowing properties and having a binding medium for causing adherence to said coating material.

2,311,157

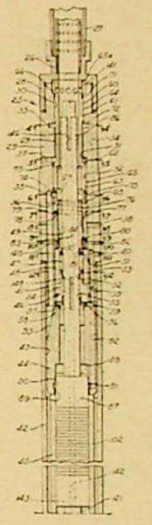
FLUID OPERATED PUMP WITH BUILT-IN GOVERNOR

Clarence J. Coberly, Los Angeles, Calif., assignor to Roko Corporation, Reno, Nev., a corporation of Nevada

Application March 29, 1941, Serial No. 385,874

24 Claims. (Cl. 121—157)

1. A valve mechanism for a fluid motor of the character described having a motor piston operable in a motor cylinder and having a passage for supplying operating fluid to one end of said cylinder, including: a valve member movable between primary and secondary positions to open said passage; means for moving said valve member at a relatively high rate of speed from said primary position to a first point at which said valve member is about to open said passage; means for moving said valve member at a materially reduced uniform rate of speed from said first point to a second point at which said valve has fully opened said passage; and means for moving said valve member from said second point to said secondary position at a materially increased rate of speed.



17. A valve mechanism for opening a passage adapted to carry a flow of fluid, including: a valve member movable between primary and secondary positions, said valve member opening said passage at an intermediate zone of movement between said positions; throttling means associated with said valve member for gradually opening said passage as said valve member passes through said zone to meter the flow of fluid through said throttling means; and means for maintaining said valve member in said metering position so long as the pressure of fluid in said passage varies from a prescribed value.

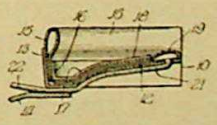
2,311,158

METHOD AND MEANS FOR MAKING DENTURES

James V. Conway, Hinsdale, and William P. Crockett, Evanston, Ill., assignors of one-third to Adolph C. Doe, Chicago, Ill.

Application January 16, 1941, Serial No. 374,690

8 Claims. (Cl. 32—17)



8. The method of taking an impression for a denture, which consists in placing a tray filled with a plastic material about the jaw, and applying fluid pressure to the material against predetermined jaw areas spaced from the edges of the jaw.

2,311,159

PRODUCTION OF SOUND RECORDS

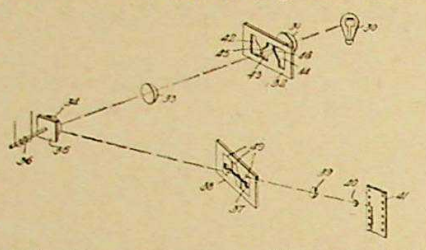
Glenn L. Dimmick, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Continuation of application Serial No. 168,173, October 9, 1937. This application June 1, 1940, Serial No. 338,424

12 Claims. (Cl. 179—100.3)

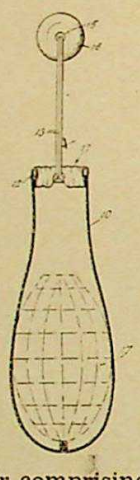
1. The variable area impulse record producing method which includes making a direct positive push-pull record of said impulses having an-

ticipatory noise reduction, rerecording said direct positive record to a direct negative record hav-



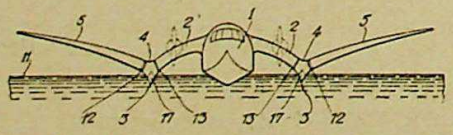
ing anticipatory noise reduction, and printing release prints from said direct negative record.

2,311,160
BOMB THROWER
Ransom A. Dobbelaar, Plainfield, N. J.
Application August 14, 1942, Serial No. 454,801
1 Claim. (Cl. 124—5)



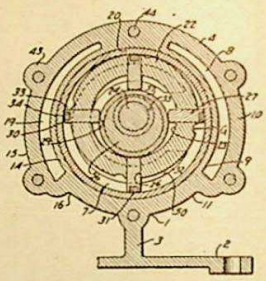
A bomb thrower comprising a bag and a draw string closure for the mouth of the bag, a ball having a diametrical opening therethrough, the strings of said draw string closure passing through said opening, said opening being substantially large compared with the combined thickness of said strings to permit free rotation of said ball on said strings as an axis.

2,311,161
FLYING MACHINE
Claude Dornier, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian
Application March 15, 1938, Serial No. 195,949
In Germany March 31, 1937
4 Claims. (Cl. 244—106)



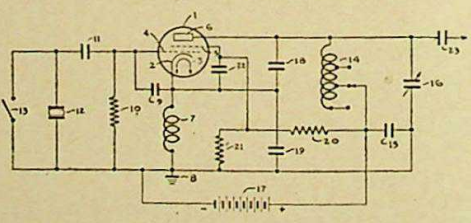
1. A hydroplane comprising a hull, a wing comprising a root portion cantilever like connected to the upper part of said hull and extending laterally downward from the upper part of the hull and having an upper and a lower surface, both surfaces being curved towards said hull, said root portion forming a completely unobstructed cavity extending alongside said hull, a main wing portion having an inner end connected to the outer end of said root portion and having an upper and a lower surface, both said surfaces being concavely curved with respect to the ground and extending laterally upward from the outer end of the respective surfaces of said root portion, the lower surface of the outer end of said root portion and the lower surface of the inner end of said main wing portion merging into a downward pointing edge like portion and forming an acute angle with one another, said edge like portion being substantially as low as the normal water level of said hull and float means disposed entirely inside said wing above said edge like portion.

2,311,162
FLUID PUMP OR MOTOR
Virgil L. Du Bois, Tulsa, Okla.
Application May 20, 1940, Serial No. 336,231
2 Claims. (Cl. 103—136)



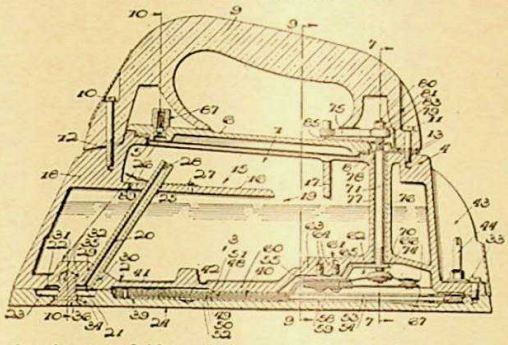
1. In a fluid pump, a stator having an inlet and an outlet, a rotor rotatably mounted in said stator, a shaft engaged with said rotor, vanes reciprocably mounted in said rotor in wiping engagement with said stator, end plates closing the ends of said stator having grooves communicating with said inlet and outlet respectively and with the interior of the stator, each of said plates having a recess therein interiorly of and adjacent the grooves communicating with the outlet, and sealing means in the recesses having engagement with the ends of the rotor to prevent leakage from the outlet of the stator, said sealing means having spaced ends to provide passage for escape of fluid from said stator to the inlet thereof.

2,311,163
OSCILLATOR CIRCUIT
Robert B. Edwards, Baltimore, Md.
Application October 11, 1941, Serial No. 414,683
8 Claims. (Cl. 250—36)



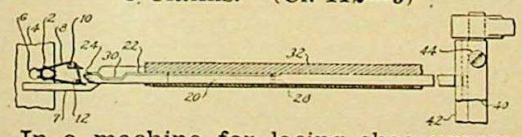
1. In a high frequency oscillator system, the combination of an electric discharge device having a cathode, a control grid and an anode, a parallel resonant circuit comprising inductance and capacity, one terminal of said circuit being connected to said anode, a capacitance voltage divider connected in parallel with said circuit, a connection between said cathode and an intermediate point on said voltage divider, an electromechanical resonator connected between said control grid and the other terminal of said circuit, and means for disabling said electro-mechanical resonator and maintaining said control grid substantially at the alternating current potential of said other terminal of said circuit.

2,311,164
ELECTRIC STEAMING IRON
Henry V. Ekstedt, St. Louis, Mo., assignor to Ernest F. Pohl, St. Louis, Mo.
Application February 24, 1941, Serial No. 380,357
3 Claims. (Cl. 38—77)



2. An iron of the character described including in combination, a shell forming a water reservoir and having an integral hollow column extending through the water reservoir from the top to the bottom of the shell, a tube of a different metal from the metal of the hollow shell arranged within the hollow column and having the metal of the column cast around it, a sole plate attached to the shell and having a pressing surface, an electric heating unit located between the shell and the sole plate for heating the sole plate and for converting water into steam within the reservoir, means for conducting steam from the reservoir to the pressing surface, a thermostat electrically connected with the heating unit and located between the shell and the sole plate, a bushing forming a bearing and arranged within the upper end of the tube and means for adjusting the thermostat including a screw journalled in said bearing and extending through the tube and operable exteriorly of the iron for adjusting the thermostat.

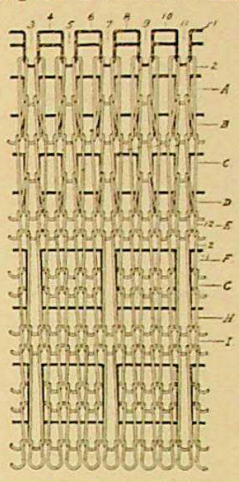
2,311,165
SHOE UPPER LACING MACHINE
Joseph Fossa, Salem, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application June 25, 1940, Serial No. 342,292
3 Claims. (Cl. 112—5)



1. In a machine for lacing shoe uppers, the combination with upper clamping means, a needle for inserting a series of loops of cord in an upper, and a looper cooperating with the needle to enchain the inserted loops, of a cutter comprising a bar actuated relatively to the looper while the final loop of a lacing is held by the looper, a guide in which the bar is mounted for sliding movement, and a knife having a cutting edge outside the guide and a spring shank secured to the bar within the guide to prevent removal of the knife when the bar is in operative position in the machine.

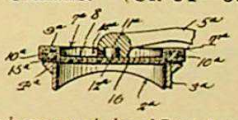
2,311,166
KNITTED FABRIC AND METHOD
Oscar Fregeolle, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application March 28, 1942, Serial No. 436,644
13 Claims. (Cl. 66—172)

1. A knitted fabric having in combination elastic and inelastic yarns, the elastic yarn being incorporated under tension and at non-adjacent wales for drawing said wales laterally together,



and further being incorporated in predetermined courses but tucked at said nonadjacent wales, the inelastic yarn also being tucked with the elastic yarn at said nonadjacent wales.

2,311,167
TAMPION
Charles Bird Gage, Wilkes-Barre, Pa.
Application May 19, 1941, Serial No. 394,215
3 Claims. (Cl. 84—385)

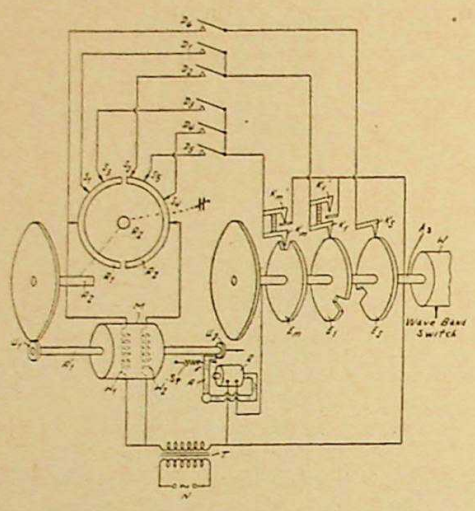


1. In an instrument typified by the wood-wind group, a tampion including a body, and an annular marginal padding assembled with the body, the body being of solid construction within the contour of the padding and throughout its thickness, for direct exposure to an air column, in combination with a disk-like padding of the same thickness as the marginal padding and filling the space within the annular padding, and means for securing the paddings individually and separately to the body.

2,311,168
PUSH BUTTON TUNED RECEIVER WITH MOTOR DRIVE
Erwin Gendriess, Berlin, Germany; vested in the Alien Property Custodian
Application August 2, 1939, Serial No. 287,909
In Germany August 2, 1938
7 Claims. (Cl. 250—40)

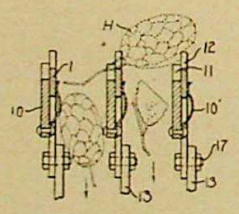
1. In a multi-wave band radio receiver provided with motor tuning which is controlled by means of a plurality of selectively operable devices each acting upon operation to effect the movement of a tuning control element to a desired position through operation of the motor, an operable wave band switch means, means adapted to couple said motor to said switching means, and means acting upon operation of one of said selectively operable devices, when the switching means is in a predetermined one of its positions, for rendering said coupling means operative to couple said motor to the switching means, effect the movement of the switching means to another predetermined position through operation of the motor, render the coupling means ineffective upon the attainment of the desired switch position and thereafter effect the

movement of the tuning control element to a desired predetermined position thereby tuning the



receiver to a particular frequency in one of said wave bands.

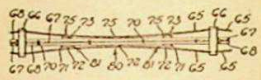
2,311,169
HOP PICKING AND CLEANING MACHINE
Julius G. Gordon, Yakima, and Marlowe A. Lesh, near Yakima, Wash., assignors to Washington State Hop Producers, Inc., Yakima, Wash., a corporation of Washington
Application December 30, 1940, Serial No. 372,254
35 Claims. (Cl. 130—30)



32. A method of picking hops which comprises progressively dividing the stems and vines by shearing into individual pieces smaller in one dimension than any dimension of a hop, and progressively removing the divided pieces from the undivided pieces of stem and vine and hops during said dividing operation and eventually severing the stems which hold the individual hops to the arm or cluster and separating said stems from the hops.

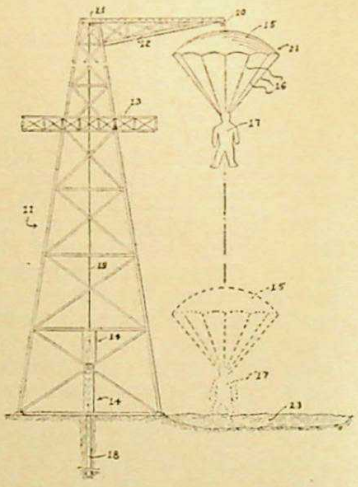
2,311,170
BUILDING WALL
James C. Hain, Los Angeles, Calif.
Application February 18, 1941, Serial No. 379,431
23 Claims. (Cl. 20—4)

1. A wall for a building comprising: a plurality of spaced studs; a plurality of plates alternating with said studs, each of said plates being bowed under edgewise compression between a pair of the studs to form an arched wall panel; a plurality of members likewise bowed under edgewise compression between pairs of the studs, each of said members being bowed oppositely to the corresponding plate and being adapted to receive and resist stresses tending to distort said plate; means interconnecting said studs in tension to resist the edgewise pressure of said plates and members against the studs; and longitudinal spacers interposed between the consecutive studs



to minimize the spacing between the studs and thereby limit the bowing of said plates and members.

2,311,171
CAPTIVE PARACHUTE DEVICE
Laurence Hawthorne, Los Angeles, Calif.
Application May 7, 1941, Serial No. 392,260
2 Claims. (Cl. 35—12)

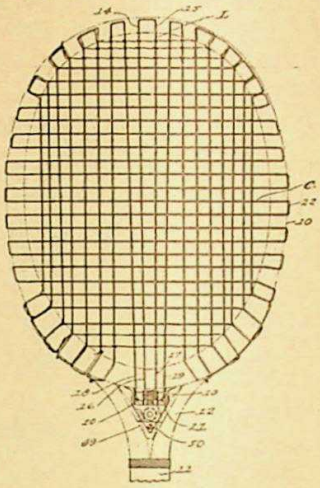


1. A captive parachute device characterized by: a parachute; a main supporting structure; a housing whose interior is open at the top thereof; disposed within said housing and individually alternately supported by parts thereof, one lowermost superposed weight and at least one other superposed weight, each thereof being provided with a cable-accommodating hole, said holes being aligned substantially vertically with one another; mounted on said structure, at least two sheaves; reeved thereover, a cable, a weight-adjacent part thereof disposed adjacently said housing and through said holes; a parachute-end of said cable supporting said parachute; a terminal weight supported by said weight-adjacent part, said lowermost superposed weight being superposed over said terminal weight, said other superposed weight being superposed over said lowermost superposed weight, whereby said terminal weight is adapted to alternately lift directly said lowermost superposed weight and to alternately lift indirectly said other superposed weight through the medium of said lowermost superposed weight, under the impulse of the descending said parachute, and whereby the operator of the parachute is eased to the ground.

2,311,172
RACKET
Kurt Hetzel, Washington, D. C.
Application October 29, 1940, Serial No. 363,342
6 Claims. (Cl. 273—73)

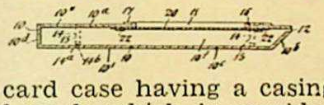
1. The combination with a racket including a frame, conventional longitudinal stringing carried by said frame, and a handle, of winding means, hook means on said winding means en-

gaging the central loops of said stringing beyond the handle end of said frame, and means oper-



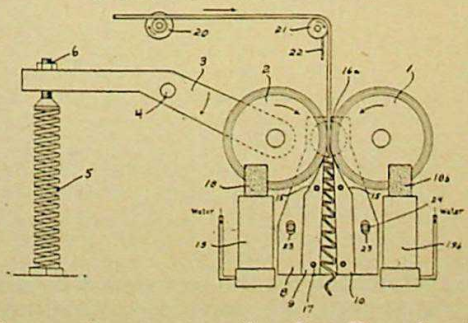
able to adjust said winding means whereby to adjust the tension of the stringing.

2,311,173
CARDCASE
Richard O. H. Hill, Larchmont, N. Y.
Application June 20, 1940, Serial No. 341,419
7 Claims. (Cl. 206—40)



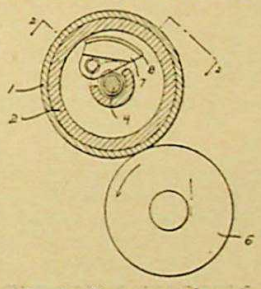
1. In a card case having a casing for holding a stack of cards which is provided with a top wall having an opening of sufficient length so that one's finger may be placed through said opening and moved forwards and also having an end wall inclined outwardly from the bottom to the top and at its top having a slit disposed transversely of the casing through which said cards may pass one at a time, a thin sheet of elastic material having a high coefficient of friction mounted across said opening in a condition that it may stretch, whereby an area of said sheet may be pressed down upon the face of one of the cards in said case and then moved forwards to stretch said sheet in a plane parallel to said top wall and partially project a card through said slit by frictional engagement.

2,311,174
TEXTILE CRINKLER
Ira V. Hitt, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 6, 1940, Serial No. 368,925
6 Claims. (Cl. 19—66)



1. Apparatus for treating bundles of artificial filaments comprising two horizontally disposed, positively driven, cooperating cylindrical feed rolls, having smooth cylindrical faces and closely spaced whereby to form a bite therebetween, means for permitting the movement of one roll down and away from the other roll, adjustable and yieldable means for resisting said movement, a four-walled, straight channeled chamber located below and in overlapping relationship with the lower portion of said rolls, said chamber comprising vertical front and rear walls overlapping and contacting the ends of said rolls at the bite thereof, and vertical side walls, spacing the front and rear walls, each side wall being shaped to a knife edge at the upper end and inner edge thereof, and being arcuately shaped from the knife edge to the outer edge thereof to conform approximately to the curvature of the cylindrical face of the rolls, said side walls being positioned to closely fit the cylindrical faces of the rolls just beneath and to either side of the bite of the rolls, a plate located at the lower portion of said chamber and pivoted at its upper edge to a wall of said chamber, said plate being yieldably pressed to operate as an obstruction within said chamber whereby to resist the free flow of the bundle of filaments through said chamber.

2,311,175
BOBBIN BRAKE
Ira V. Hitt, Kenmore, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 14, 1941, Serial No. 402,351
3 Claims. (Cl. 242—36)



1. In a thread winding mechanism wherein a hollow bobbin assembly, freely rotatable on a fixed spindle, is driven by a positively driven surface drive roll, and wherein the bobbin filled with thread is movable out of contact with said roll for doffing, the improvement which comprises a brake element within said hollow bobbin assembly said element being swingably mounted on a pivot and being so proportioned that when said bobbin assembly is in a winding position the center of gravity of said element is to one side of a vertical line passing through said pivot whereby said element is gravity actuated free of said bobbin assembly, and when said bobbin assembly is in doffing position, the center of gravity of said element is to the opposite side of said vertical line whereby said element is gravity actuated into braking contact with said bobbin assembly.

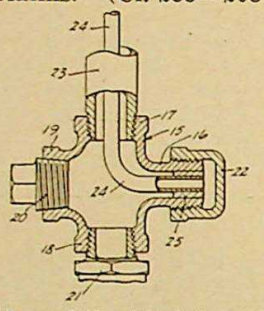
2,311,176
METHOD FOR FILLETING FISH
William Hutton, Monterey, Calif., assignor to Seapride Packing Corporation, Ltd., a corporation of California
Application May 27, 1941, Serial No. 395,401
2 Claims. (Cl. 17—45)

1. A method of preparing fish fillets comprising decapitating a fish, placing the fish in a predetermined position in which the fish is supported on its back, forcing together the opposite sides of said fish to force the entrails into a relative-

ly narrow space running lengthwise of the fish and away from its spine and, while the belly is

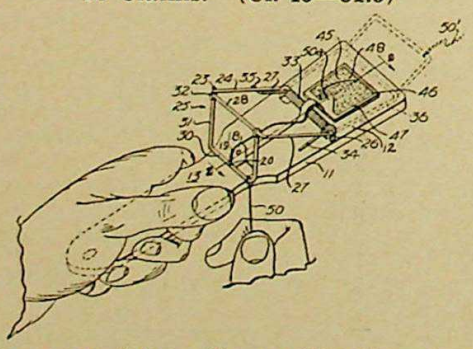
so deformed, slicing a fillet off each side of the fish to leave the back and belly intact and joined together by the bone structure of the fish.

2,311,177
AIR VENTED TANK DRAIN
Melvin N. Johnson, Faribault, Minn.
Application March 26, 1941, Serial No. 385,219
3 Claims. (Cl. 285—208)



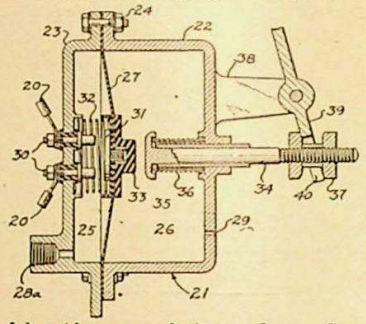
1. A pipe fitting of the kind described provided with at least three branches, the first of which is internally threaded to receive the externally threaded end of a drain pipe; the second of which is internally threaded to receive the threaded shank of a faucet; and the third of which is externally threaded and internally plugged; a cap screw threaded onto the said externally threaded branch; and an air venting tube extended through said first internally threaded branch and through the internally plugged end of said third or externally threaded branch; said cap when applied serving to close the outer end of said air venting tube.

2,311,178
MOUSETRAP
David F. Jorgensen, Temple City, Calif.
Application April 13, 1940, Serial No. 329,505
13 Claims. (Cl. 43—81.5)



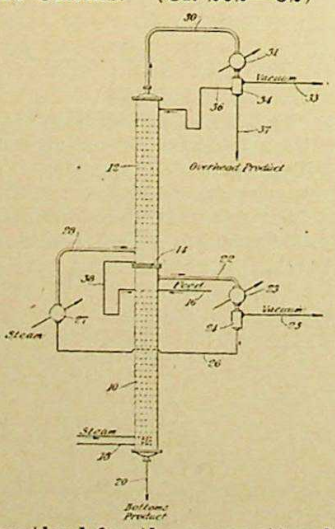
1. In a rodent trap, the combination of: a base having a portion extending rearwardly therefrom to provide a handle for said base; a jaw element hingedly connected to said base at a point spaced from the front end thereof; spring means to urge said jaw element toward engagement with the front end of said base; a bait holder positioned movably relative to the front portion of said base; a latch on the rearward portion of said base having a stationary shoulder to engage and hold said jaw element in retracted position against the force of said spring means; and means extending from said bait holder to said latch to effectuate disengagement of said jaw element from said stationary shoulder as the result of movement of said bait holder.

2,311,179
SAFETY SWITCH FOR INTERNAL COMBUSTION ENGINES
Russell G. Berry, Maplewood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application May 27, 1941, Serial No. 395,406
5 Claims. (Cl. 123—198)



1. In combination, an internal combustion engine having an intake manifold, a carburetor having a throttle valve, mechanism for controlling said valve, a circuit for electrically operated engine accessories, a switch in said circuit, spring means urging said switch toward an open position, stronger opposing spring means urging said switch toward a closed position, means operatively connected to said throttle control mechanism for contracting said stronger spring to prevent the closing of said switch thereby as the throttle is moved toward a closed position, and means responsive to intake manifold suction for moving said switch to a closed position.

2,311,180
DISTILLATION
Marcel J. P. Bogart, Teaneck, N. J., and James S. F. Carter, Oceanside, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application April 4, 1941, Serial No. 386,798
10 Claims. (Cl. 202—52)



1. In the method for the separation by distillation of a mixture of organic compounds into fractions of predetermined purity, the components of said mixture having relatively close boiling points at atmospheric pressure and having

vapor pressure curves that converge with an increase in absolute pressure, the degree of enrichment between liquid and vapor being small and decreasing with an increase in pressure, the steps which comprise continuously feeding the mixture to a distillation system at a point corresponding to its composition, said system being composed of a plurality of separate but interrelated distillation zones, said distillation zones together having a combined total pressure drop such that the resulting increase in pressure would render the degree of enrichment negligible before the predetermined separation could be effected, maintaining an independent vacuum on each zone, condensing the overhead distillate from each zon[illegible]orizing the overhead condensate from e[illegible] the last and feeding the resulting [illegible]rs to the bottom of the next sub-[illegible]on zone, the overhead conden-[illegible]t distillation zone being an end [illegible]ng one of said predetermined [illegible]awing the bottoms from each [illegible]out the first and refluxing the [illegible]lation zone therewith, and [illegible] from the first distilla-[illegible]oduct comprising the [illegible] fractions.

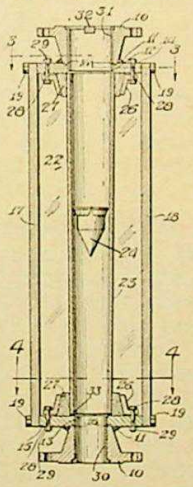
2,311,181

ROTAMETER CONSTRUCTION

Kenneth D. Bowen, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application September 6, 1940, Serial No. 355,575

5 Claims. (Cl. 73—209)



1. A fluid flow meter including a pair of horizontal opposed upper and lower metal end members each having an opening contrally disposed therein, right and left metal side plates extending intermediate said upper and lower end members and rigidly connected therewith, front and rear side plates extending intermediate the opposed front and rear marginal portions of said right and left side plates, said members and plates compositely providing a box-like structure defining a generally completely enclosed chamber, at least one of said side plates being transparent, and at least one of said side plates being movable to provide access to the interior of said chamber, an upright tapered transparent metering tube inside said chamber having its upper and lower ends in respective communication with the openings in the upper and lower end members, said tube being of an overall length slightly less than the distance between said end members, and means detachably holding the ends of said tube in sealed communication with said openings comprising annular sealing members encircling the respective ends of said metering tube and each having a portion in operative juxtaposition with the metal surface surrounding the adjacent opening, clamping collars encircling and confining said sealing members, and adjustable screw-threaded securement means detachably holding said clamping collars to said end members.

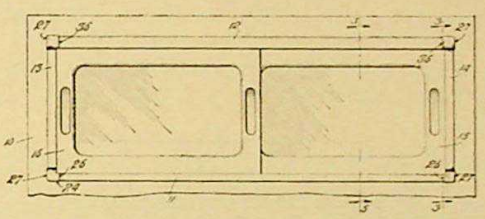
2,311,182

REFRIGERATOR DISPLAY CASE

Samuel Bohn, Clifton, N. J., assignor to American Hard Rubber Company, New York, N. Y., a corporation of New York

Application December 17, 1940, Serial No. 370,446

4 Claims. (Cl. 20—11)



1. In a casement of the character described, having four corners, a pair of upright members constituting spaced-apart jambs, top and bottom rail members having ends abutting said jambs at the respective corners of the casement, the middle portions of said members being composed of relatively non-resilient material, and a section of resilient material interposed between each end of each jamb member and the corresponding abutting end of each of said rail members.

2,311,183

TRI-(CYANOETHYL)-ACETONE

Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application February 7, 1942, Serial No. 429,957

5 Claims. (Cl. 260—464)

1. As a new compound, tri-1,1,1-(β-cyanoethyl)-acetone

$$CH_3-CO-C(CH_2CH_2CN)_3$$

which, when pure, consists of colorless crystals melting at 154° C.

2,311,184

FEED REVERSING MECHANISM FOR SEWING MACHINES

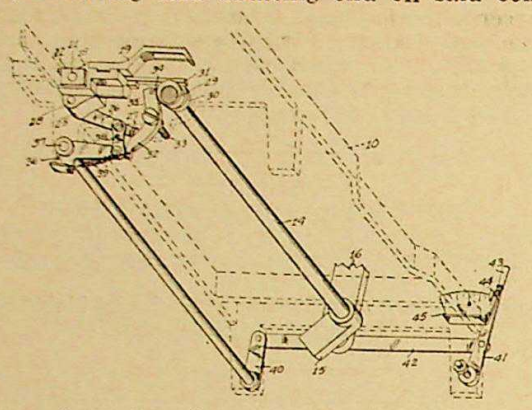
James Hickey, Portland, Oreg.

Application April 28, 1941, Serial No. 390,777

2 Claims. (Cl. 112—210)

1. In a sewing machine, a driven horizontal feed shaft, a cam mounted on said shaft, a bracket arm, a cloth feeder secured to said bracket arm, a rocker located at one side of the cam, the face of said rocker remote from said cam being concaved longitudinally, said rocker mounted for oscillation in a vertical plane, the pivotal point of said rocker located near the longitudinal center of said concave surface, spring means attached to one end of said rocker acting to hold the other end of said rocker against said cam, a link pivoted at one end to said bracket arm, the free end of said link abutting said concave surface, spring means holding

said link in abutment with said concave face, and lever-operated means connected to said link for positioning said abutting end on said con-



cave surface at various distances from said pivotal point either above or below said pivotal point.

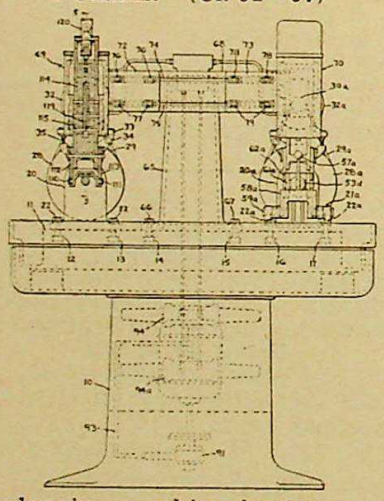
2,311,185

DUPLEX LAPPING MACHINE

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application May 29, 1941, Serial No. 395,850

6 Claims. (Cl. 51—67)



1. In a lapping machine having a rotatable work support including a headstock and a footstock, a rotatable spindle on said headstock, an electric motor to rotate said spindle, means to move said footstock to and from an operative position, a lapping head including a reciprocable lapping stick, means to reciprocate said stick, means including a piston and cylinder to move said head and stick to and from an operative position, an electrically actuated control valve to control the admission to and exhaust of fluid from said cylinder, and an electrical interlock between said footstock and control valve including a switch actuated by movement of the footstock to an operative position to actuate said control valve to cause a movement of the lapping head toward an operative position only when the footstock is in an operative position.

2,311,186

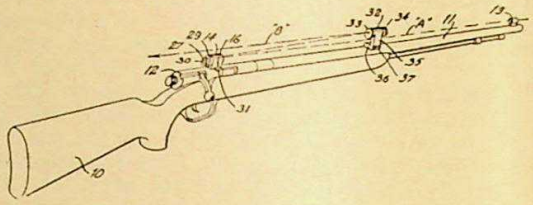
GUN SIGHT

Burr Lobdell, Cowdrey, Colo.

Application May 3, 1941, Serial No. 391,667

8 Claims. (Cl. 88—97)

1. In a reflecting gun sight, a tubular shell; a spherical seat in one extremity of said shell; a hemispherical block having its spherical side resting in said seat; a flat, polished reflecting surface formed on the front on the exposed face of said block; a shaft secured to and extending



rearwardly within said shell from said block said shaft being perpendicular to said flat surface; and means for swinging said shaft in a conical path about the axis of said shell to gyrate said block on its spherical seat to adjust the position of the reflecting surface.

2,311,187

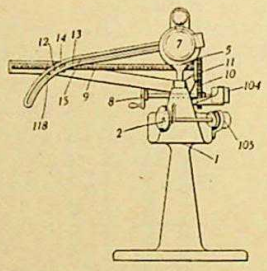
RANGE FINDER, HEIGHT FINDER, AND THE LIKE

Hugh Murtagh, Laleham-on-Thames, England, assignor to Sperry Gyroscope Company, Incorporated, Brooklyn, N. Y., a corporation of New York

Application April 21, 1939, Serial No. 269,299

In Great Britain April 23, 1938

6 Claims. (Cl. 88—2.2)



2. In apparatus for determining the height of a remote object, a member rotatable about a substantially horizontal axis, a slotted arm extending from said member in a plane normal to said axis, said slot having a straight and a curved portion forming a continuous guide, a threaded rod positioned along a line in said plane not intersecting said axis, a block in threaded engagement with said rod and in sliding engagement with said slot, optical means mounted on said rotatable member defining a line of sight, and means for training said line of sight on said object including means for rotating said rod whereby said block is displaced along said rod and thereby rotates the line of sight from the horizontal through an angle whose cotangent is proportional to the displacement of said block from a reference position when said block is in engagement with the straight portion of said slot and through a greater angle when said block is in engagement with the curved portion of said slot.

2,311,188

RAILWAY CAR STRUCTURE

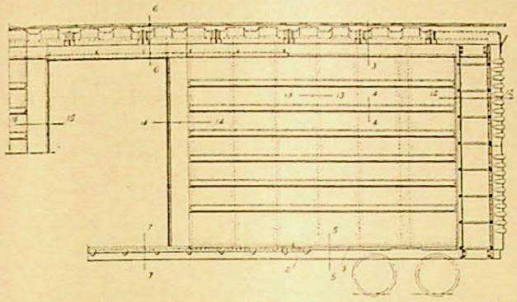
Karl F. Nystrom, Milwaukee, Wis.

Application August 3, 1940, Serial No. 350,487

37 Claims. (Cl. 105—409)

1. A side wall for a railway car comprising a top chord, a bottom chord, vertical posts extending between and secured to said chords, and a plurality of horizontally elongated and vertically disposed wall sheets overlapped in shingle rela-

tionship, the overlapping outer portion of each sheet formed with a corrugation which crosses



said vertical posts, said sheets being welded to said posts adjacent each side of each corrugation.

2,311,189

PURIFICATION OF BENZENE

Merlin D. Peterson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 23, 1939, Serial No. 310,758

3 Claims. (Cl. 260—674)

1. In a process for the removal of thiophene from benzene containing it the steps which comprise introducing thiophene-containing benzene and anhydrous aluminum chloride into a mixture of aluminum chloride saturated benzene maintained at the boiling point of the mixture and distilling off the thiophene-free benzene.

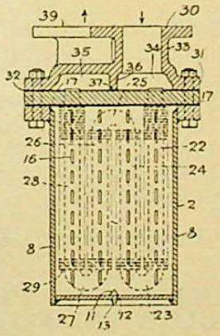
2,311,190

HEAT EXCHANGER

Wilbur A. Shaw, Forest Hills, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application March 19, 1942, Serial No. 435,315

2 Claims. (Cl. 257—240)



1. A heat exchanger comprising a shell having an open end and an inlet and an outlet port; a header secured to said shell, closing said open end, and having a tube sheet and ported inlet and outlet compartments; parallel spaced perforated shell-partitioning baffles disposed in said shell for series flow therethrough of fluid under pressure; and U-bend fin tubes in said shell, each having its free ends secured in said tube sheet, opening respectively into said inlet and said outlet compartments, and being formed of a row of straight legs connected progressively by U-bends, each tube being disposed adjacent a baffle at the outlet shell port side thereof and having its plane parallel thereto, the perforations of said adjacent baffle being arranged in rows, a row being parallel and adjacent to each leg of said adjacent tube, the perforations thereof being shaped and proportioned to jet shell fluid against said adjacent leg, said perforations providing series flow through said baffles.

2,311,191

JOINT STRUCTURE FOR CORRUGATED GLASS SHEETS

Laurence T. Sherwood, Connellsville, Pa., assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 21, 1940, Serial No. 371,169

2 Claims. (Cl. 108—16)

1. A joint structure for corrugated glass sheets spaced apart at their adjacent edges comprising a cover cap having a lining of a strip of glass fiber mat containing a water repellant, a comparatively narrow bar overlying the strip of glass fiber mat and adapted to enter the space between the edges of the glass sheets and to hold the glass fiber mat in compression up to the cover strip, and clips passing through the cover cap, strip of glass fiber mat and bar.

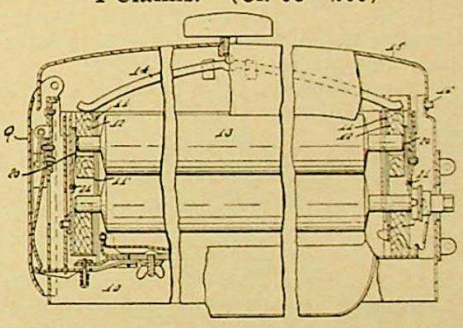
2,311,192

UPPER ROLL SNUBBER FOR WRINGERS

Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York

Application June 10, 1940, Serial No. 339,594

4 Claims. (Cl. 68—269)



1. In a wringer comprising a base frame having vertically channeled end standards having upwardly open bearing block guides, a top bar releasably associated with the base frame, a pair of wringer rolls and bearing blocks for the upper of said rolls vertically slidable in the guides of the end standards of the base; a friction spring interposed between each of said bearing blocks and an inner wall of a guide of the base frame in position to frictionally impede ejection of the bearing blocks from the open guides.

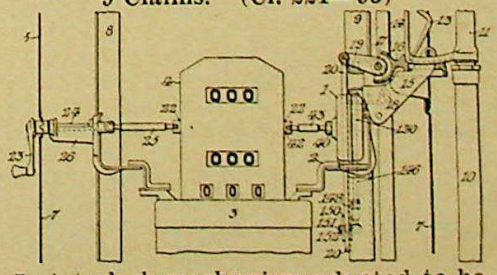
2,311,193

INTERLOCK MECHANISM

David S. Willson, Muskegon Heights, Mich., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware

Application October 25, 1941, Serial No. 416,600

9 Claims. (Cl. 221—95)



1. In interlock mechanism adapted to be connected in operating relation both to the resetting means of the indicating mechanism of liquid

dispensing apparatus and to an electric switch controlling the electric motor of said liquid dispensing apparatus; the combination with a shaft operatively connected to said resetting means; of a first cam rigidly mounted on said shaft and turned therewith; a second cam mounted for freedom of turning movement on said shaft; means carried by said first cam for effecting rotation of said second cam; a third cam mounted for freedom of turning movement on said shaft; a disk rigidly mounted on said shaft; a torsion spring, having one end connected to said disk and the other end to said third cam; a notched recess in each of said three cams; means effecting alinement of said three notched recesses when the indicating mechanism is moved to initial, or zero, position; a lever operatively connected in controlling relation to said electric switch; a cam block carried by said lever for engagement in said three notches when alined; whereby said lever may be moved to switch closing position only when said cam block is in engagement with said three alined cam notches; and means effecting movement of said cams into non-alining cam notch position upon movement of said lever from switch closing to switch opening position.

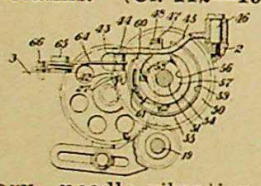
2,311,194

NEEDLE-BAR VIBRATING MECHANISM

Alfred R. Wood, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application July 28, 1941, Serial No. 404,283

7 Claims. (Cl. 112—158)



1. A unitary needle-vibration control-cam adapted for convenient attachment upon a sewing machine having a vibratory needle and a cam-actuated mechanism for controlling the amplitude of vibration of said needle, comprising, a body-portion having a flange and a support-receiving throat formed with a mouth opening into the periphery of said flange, a primary cam-section on said flange, and a secondary cam-section having a portion thereof disposed in the mouth of said throat so as to extend the active portion of the control-cam to effect the production of a predetermined pattern of stitches.

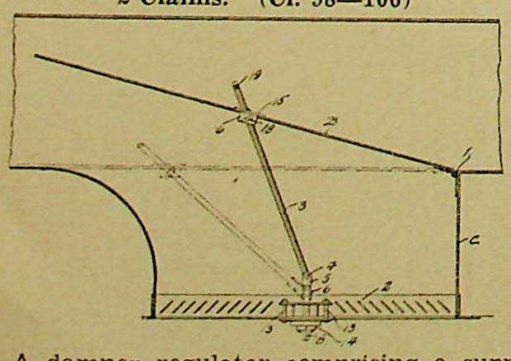
2,311,195

DAMPER REGULATOR

Emil O. Young, Cleveland, Ohio

Application February 24, 1941, Serial No. 380,347

2 Claims. (Cl. 98—106)



1. A damper regulator comprising a support, a damper movably connected therewith, an actuating rod for the damper having screw connection therewith, an operating shaft disposed at one end of the screw for turning same, and a joint connection between the operating shaft and said screw comprising a yoke pivotally connected at one end to the screw, a yoke pivotally connected at one end to the shaft, and a rigid connection between adjacent ends of said yokes.

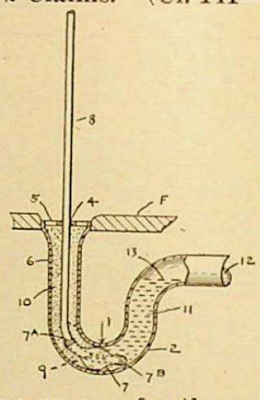
2,311,196

CLEANING PROCESS FOR URINAL METAL TRAPS

Edward T. Ahern, New Haven, Conn.

Application May 25, 1942, Serial No. 444,358

2 Claims. (Cl. 141—1)



1. A cleaning process for the removal of extraneous matter from the interior of a standard low-inside-diameter of a urinal metal trap, having an arcuate portion adapted to hold water at a normal water level, with pipe connection to an inlet, the process including plugging the trap at an intermediate location within the arcuate portion; inserting a sufficient quantity of inhibited acid solution to substantially fill up to the inlet the accessible interior of the plugged trap so that the inserted solution stands only upon one side of the plugged location; retaining the inserted solution for a sufficient cleaning period; eliminating the plugged condition of the trap to permit the cleaning solution to recede therein to normal water level; retaining the receded solution for an additional cleaning period and flushing the trap interior with water to remove the extraneous matter therefrom.

2,311,197

CLEANING PROCESS FOR URINAL TRAPS LOCATED BELOW THE FLOOR LEVEL

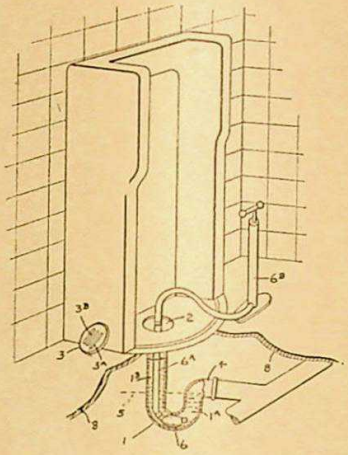
Edward T. Ahern, New Haven, Conn.

Application February 28, 1941, Serial No. 381,162

3 Claims. (Cl. 141—1)

1. A cleaning process for the removal of extraneous matter from the interior surface of a standard low-inside-diameter of a urinal metal trap located below floor level and pipe connection leading from the floor inlet thereto, the process comprising removing water found standing within said trap; inserting sufficient quantity of inhibited acid solution through the floor inlet to within the said trap to fill the said trap up to normal water level; plugging the interior of the trap at an intermediate point thereof so that the inserted solution stands upon opposite sides of the plugged location of said trap; inserting additional inhibited acid solution in sufficient quantity to complete the filling of the pipe connection above said normal water level up to the floor inlet; permitting the inserted inhibited acid solution to stand within said trap and pipe

connection during a sufficient cleaning period without injury to the metal thus contacted by the acid; eliminating the plugged condition of



said trap to permit the cleaning solution to recede therein to said normal water level; and thoroughly flushing the said trap with water to empty the removed matter therefrom.

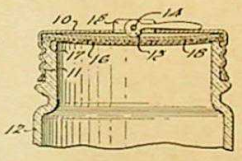
2,311,198

JAR CLOSURE

Rudolf W. Andreasson, Detroit, Mich.

Application July 3, 1940, Serial No. 343,829

3 Claims. (Cl. 215—83)



1. In combination with a jar having an annular open end with the inner periphery of said end formed to a relatively sharp corner and a cover therefor complementarily formed to admit of the cover being engaged by the periphery of said jar and drawn down over the annular open end thereof, a sanitary sealing disc disposed over the annular end of said jar and a resilient pressure disc disposed over said sealing disc, both discs being disposed within said cover when drawn down over the annular end of said jar, and means carried by said cover for applying concentrated pressure at the center of said pressure disc whereby to flex said sealing disc into sealed relationship with said jar at its upper annular end exerting maximum sealing pressure at the relatively sharp corner of the inner periphery of the said upper annular end of said jar.

2,311,199

METHOD AND APPARATUS FOR PRODUCTION OF SMOKE OR FOG

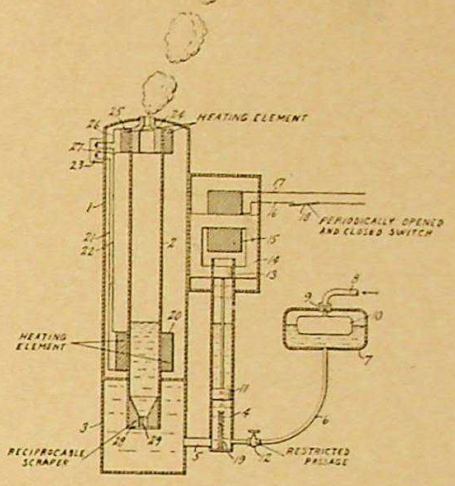
Per Anton Åstradsson, Stockholm, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden, a corporation of Sweden

Application December 6, 1940, Serial No. 368,878

In Sweden December 19, 1939

8 Claims. (Cl. 73—189)

1. The method of producing fog which includes intermittently discharging easily condensable gas into the open air from a chamber through a nozzle, alternately sucking air into the chamber through the nozzle for diluting the gas in the chamber to thereby lower its dew point, and maintaining the nozzle at a temperature above the



dew point of the mixture of air and gas and below the ignition point of the mixture.

2,311,200

MANUFACTURE OF MODIFIED ROSIN

László Auer, East Orange, N. J.

No Drawing. Application April 1, 1941, Serial No. 386,371. In Hungary May 19, 1926

12 Claims. (Cl. 260—106)

1. The process of making a modified and softened rosin product from solid and brittle rosin, which process comprises incorporation in the rosin up to 30% of a metal salt selected from the class consisting of carbonates, sulphides and sulphites of metals selected from the class consisting of magnesium, zinc and the alkaline earth metals and characterized by the ability to develop a gas other than oxygen upon the application of heat during the treatment of the rosin, and heating the mixture out of contact with the atmosphere at a temperature of from 250° C. to 350° C. until the resultant mixture, when cooled, is softened to a consistency between about that of cold flow and about that of viscous oil, the time of treatment further being sufficient to appreciably reduce the acid number of the rosin but not sufficient to lower said acid number to a value below about 60.

2,311,201

TRANSMISSION REVERSE GEARING

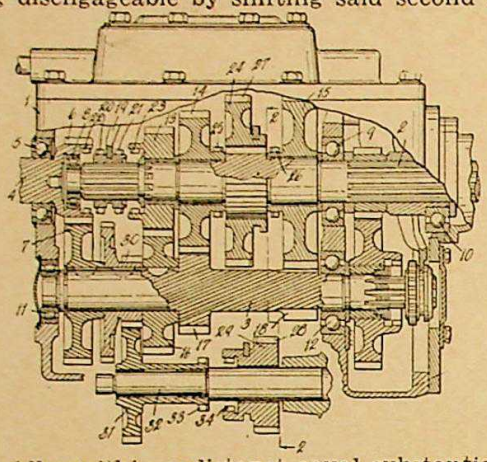
Thomas Backus, Kalamazoo, Mich., assignor to Fuller Manufacturing Company, Kalamazoo, Mich.

Application September 17, 1942, Serial No. 458,668

2 Claims. (Cl. 74—333)

1. In a change speed transmission having a main shaft and a countershaft with cooperating gears thereon and a non-rotatable reverse idler shaft having enlarged and reduced portions, a first rotatable reverse idler gear on a reduced portion of said idler shaft, a gear on said countershaft in mesh with said first reverse idler gear to drive the same, a second reverse idler gear on an enlarged portion of said idler shaft and shiftable axially and rotatable relative to said first reverse idler gear, said enlarged and reduced portions providing a shoulder to confine said first idler gear against axial movement on said idler shaft, cooperating clutch teeth on said first and second reverse idler gears, and a main shaft gear on said main shaft and adapted to mesh with said second reverse idler gear when

said clutch teeth are engaged, said clutch teeth being disengageable by shifting said second re-



verse idler within a distanct equal substantially to the width of said main shaft gear.

2,311,202

PROCESS OF REGENERATION OF AN ABSORPTION LIQUID CONSISTING OF BASIC ALUMINIUM SULPHATE FOR THE RECOVERY OF SULPHUR DIOXIDE

Josef Barwasser, Frankfort-on-the-Main, and Wilhelm Thumm, Oberursel, near Frankfort-on-the-Main, Germany, assignors to American Lurgi Corporation, New York, N. Y., a corporation of New York

No Drawing. Application September 4, 1940, Serial No. 355,410. In Germany September 26, 1939

6 Claims. (Cl. 23—178)

1. In a regenerative absorption process for the recovery of SO_2 wherein an aqueous solution of basic aluminum sulphate is employed as a circulating absorbent liquid wherein the desired basicity is gradually decreased because of the oxidation of dissolved SO_2 and the consequent production of normal aluminum sulphate, the steps which comprise periodically removing a portion of the absorption liquid containing a quantity of SO_4 substantially equal to that formed by the oxidation of the SO_2, treating such portion to precipitate the aluminum contained therein in the form of a hydroxide with a precipitant which produces a soluble sulphate, dissolving the resulting aluminum hydroxide in a quantity of sulphurous acid, and then adding such solution to the main body of the absorption liquid.

2,311,203

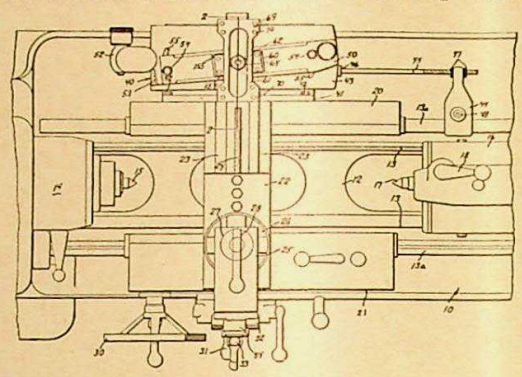
TAPER ATTACHMENT CONSTRUCTION

Clifford A. Bickel, Sidney, Ohio, assignor to The Monarch Machine Tool Co., Sidney, Ohio, a corporation of Ohio

Application June 10, 1940, Serial No. 339,685

2 Claims. (Cl. 82—17)

2. In a machine tool, a carriage bracket, a slide adapted to be moved longitudinally with respect to said carriage bracket and slidably guided thereon, and anti-friction bearing devices interposed between adjacent parallel surfaces of said slide and said carriage bracket including an outer race formed by said slide and bracket, an inner race, and a multiplicity of needle bearings between said races, said carriage bracket having an elliptical recess and an elliptically shaped insert inserted in said recess, the axes of said ellipses being in a vertical plane, said carriage further having a second elliptical recess and a second elliptical insert in said recess, said last named recess and insert being in a horizontal plane, the spaces formed between each recess and insert forming raceways



for said bearing devices, and a cover for said first recess for enclosing said bearing devices, said cover having a flange forming a hold-down plate for said slide.

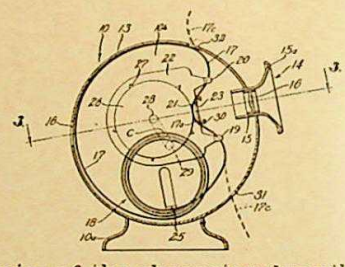
2,311,204

FILM VIEWER

Wikke Bouma, Glendale, Calif.

Application March 13, 1940, Serial No. 323,757

6 Claims. (Cl. 88—17)



1. A device of the character described comprising a case containing a perforated film and having a sight opening in its peripheral wall, a shaft extending through a side wall of the case, a sprocket rotated by said shaft and having teeth spaced apart so as to intermittently engage and advance the film across a line of vision through said sight opening, an aperture plate in said line of vision and across which the film moves, and guides at opposite sides of said plate maintaining the portion of the film engaged by the sprocket teeth in flexed form curving toward the sprocket so that the teeth move tangentially to the film in engaging and disengaging the film perforations.

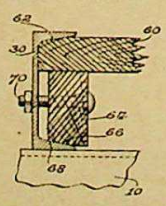
2,311,205

PUSH CAR

Hugh S. Brown, Harvey, and Godfrey E. Thomson, Chicago, Ill., assignors to The Buda Company, Harvey, Ill., a corporation of Illinois

Application March 29, 1941, Serial No. 385,882

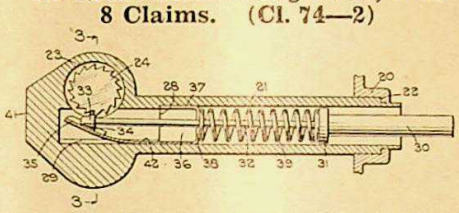
7 Claims. (Cl. 105—157)



1. A car floor construction comprising longitudinally extending boards, a transverse channel iron receiving the ends of said boards, a transversely extending sill adjustably attached to said channel iron to support said boards,

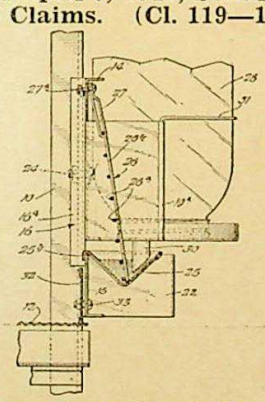
means for moving said sill longitudinally of said boards to force said boards firmly against the overhanging lip of said channel iron.

2,311,206
ELECTRIC THERMAL SWITCH
Walter Henry Bulpitt, Birmingham, England
Application November 3, 1941, Serial No. 417,660
In Great Britain August 20, 1941
8 Claims. (Cl. 74—2)



1. Thermal electric switch of the kind specified having a ratchet wheel and a tube, a plunger mounted for lateral and endwise movement in the tube, a peripheral shoulder on the plunger for engaging a tooth of the ratchet wheel, an inclined guide plate in the tube, said guide plate being resilient in a direction which is transverse to the length of the plunger, and means for locating the guide plate in the tube.

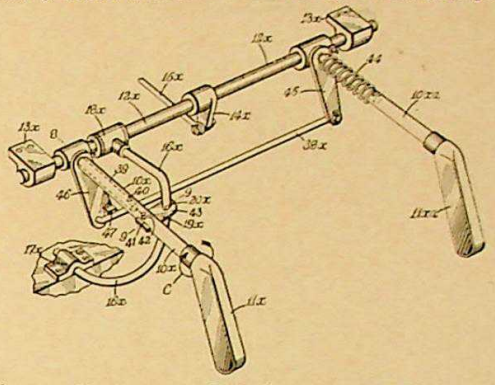
2,311,207
PEN CONSTRUCTION
Allen C. Bussey, Chicago, Ill., assignor to Bussey Pen Products Company, Chicago, Ill., a corporation of Illinois
Application April 7, 1941, Serial No. 387,150
5 Claims. (Cl. 119—17)



1. In a pen construction of the class described, a frame for a side of the pen comprising upper and lower horizontal and vertical end members defining an opening, a grille hinged at the upper edge thereof to the frame and tending to hang pendent over the opening to close the same, and a V-shaped trough supported by said frame on the exterior thereof and along the lower portion of said opening for receiving between the lower portions of the converging walls thereof the lower edge of said grille for holding the same in outwardly swung position to provide access to the trough from the interior of the pen for drinking purposes.

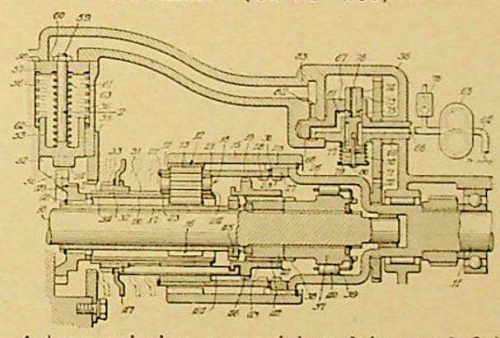
2,311,208
HAND-BRAKE LEVER
Charles William Caldwell, Johannesburg, Transvaal, Union of South Africa
Application September 8, 1941, Serial No. 410,107
6 Claims. (Cl. 74—479)

1. The combination of a hand brake lever pivoted to rotate about an axis transverse to its length, a fixed quadrant co-axial with the lever about said axis, said lever also being rotatable about its own lengthwise axis, means extending laterally from the lever to engage with the quad-



rant or disengage therefrom according to its angularity thereto, said angularity being varied by the rotation of the lever about its own axis.

2,311,209
PLANETARY TRANSMISSION
Harold E. Carnagua, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 25, 1941, Serial No. 408,171
8 Claims. (Cl. 74—260)

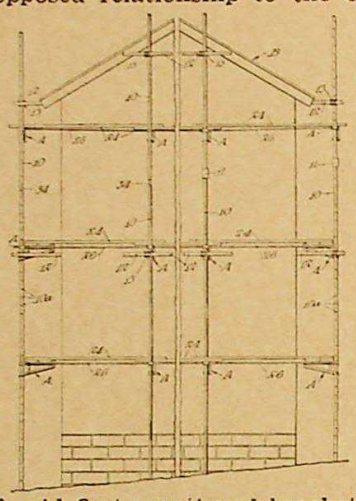


1. A transmission comprising drive and driven shafts, planetary gearing connectible between the shafts to establish reverse, direct and overdrive ratios, a source of fluid under pressure, a centrifugally operable valve driven from the driven shaft, a positive brake for arresting the rotation of the sun gear to establish overdrive, hydraulic means for operating the brake, said hydraulic means comprising a fixed housing having a bore therein, a step in the bore, a piston in the wider portion of the bore, a second piston in the narrower portion of the bore, a lost motion connection between the pistons, resilient means between the steps and one of the pistons for urging the said one of the pistons in a direction to take up the lost motion connection, and resilient means for transmitting the pressure from one piston to the other; and conduits connecting the source of fluid under pressure, the valve and the hydraulic means, said valve being adjusted to admit fluid under pressure to the hydraulic means at a predetermined speed of the driven shaft to establish overdrive.

2,311,210
SCAFFOLD
Theron S. Castner, Minneapolis, Minn.
Application February 20, 1941, Serial No. 379,746
7 Claims. (Cl. 304—10)

1. In a scaffold structure, an upright, a substantially horizontal bracket member having a first portion at least partially encircling said upright, a second bracket portion extending from

said first bracket portion at a point spaced outwardly from said upright and engaging said upright at a point spaced below said first bracket portion and extending at least partially around said upright and contacting portions of said upright in opposed relationship to the encircling



portion of said first mentioned bracket portion, said bracket member being vertically slidable on said upright and means for detachably securing at least one of said bracket portions to said upright to prevent vertical displacement of said bracket member.

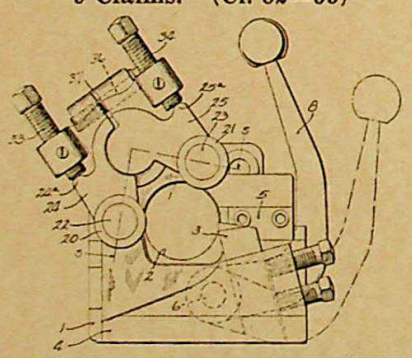
2,311,211

TURNING ATTACHMENT

George M. Class, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin

Application October 28, 1939, Serial No. 301,767

9 Claims. (Cl. 82—35)



1. In a turning attachment providing a frame and a tool slide guided on said frame for adjustment transversely with respect to the work axis, the combination of adjusting and clamping means for said slide including a hand lever, a train connecting said lever and said slide for movement of said slide to turning position including cam means determining said turning position, a clamp for said slide, and means operatively connecting said hand lever for actuation of said clamp to clamping position thereof after said slide occupies said turning position determined by said cam.

2,311,212

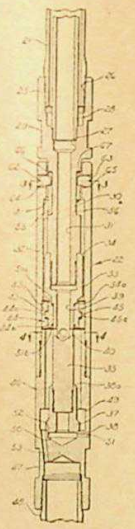
BLEEDER CONSTRUCTION

Clarence J. Coberly, Los Angeles, Calif., assignor to Roko Corporation, Reno, Nev., a corporation of Nevada

Application February 10, 1941, Serial No. 378,219

18 Claims. (Cl. 166—1)

1. In a control valve for use in a well, the combination of: a lower valve member adapted to be connected to a lower well tubing; an upper valve member cooperating with said lower valve member and adapted to be connected to an upper well tubing, said valve members being so constructed and arranged that said upper valve member is adapted for vertical movement relative to said lower valve member to selectively occupy either an upper position in which fluid communication is closed through said valve members between said upper and lower well tubings and through said valve members between said upper well tubing and the exterior of the control



valve, or an intermediate position in which fluid communication is opened through said valve members between said upper well tubing and the exterior of the control valve, or a lower position in which fluid communication is opened through said valve members between said upper and lower well tubings but closed through said valve members between said upper well tubing and the exterior of the control valve; and means operable from the surface of the ground for moving said upper valve member relative to said lower valve member so as to cause said upper valve member to occupy any desired one of said positions.

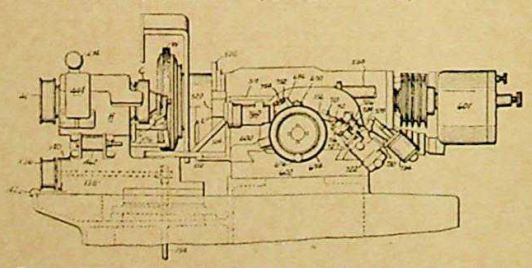
2,311,213

GRINDING MACHINE

Raymond H. Cramer, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 30, 1940, Serial No. 348,398

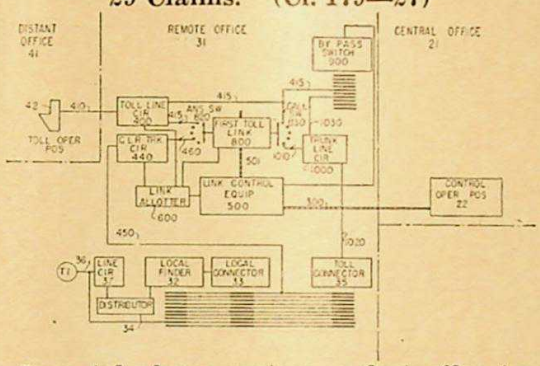
11 Claims. (Cl. 51—105)



1. In a machine for grinding an overhanging tapered shoulder adjacent to an external surface on a work piece, a work holder for rotating the work piece, a grinding wheel having a conical flange overlying the external surface clear of the latter and terminating in a conical operating surface lying at the same angle to the work axis as the shoulder, the wheel being dished and having its drive shaft slanted back laterally of the work, and means for feeding the wheel

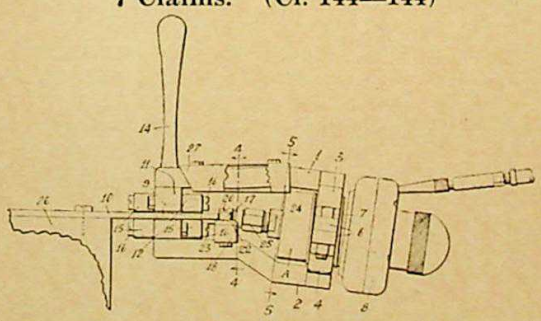
in a line of direction which extends crosswise of the flange and makes a small angle with the shoulder.

2,311,214
TELEPHONE SYSTEM
Thomas F. Crocker, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 10, 1941, Serial No. 418,483
29 Claims. (Cl. 179—27)



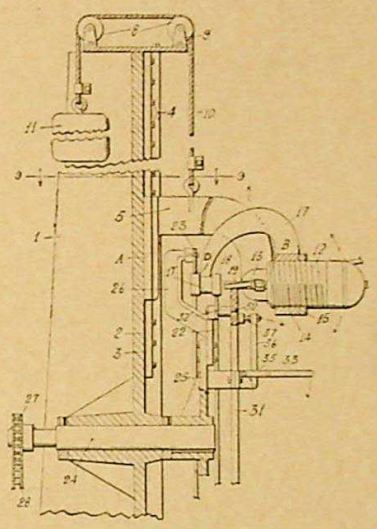
1. In a telephone system, a first office terminating a plurality of lines and including a group of links, a remote second office including an operator position, a control trunk extending between said offices, automatic means for connecting an idle one of said links to said control trunk and for transmitting a signal over said control trunk indicative of said one link and for connecting said one link to a calling one of said lines, means responsive to the signal transmitted over said control trunk for indicating to the operator at said operator position the particular link in said group which is connected thereto, and means controllable over said control trunk from said operator position for connecting said one link to a called one of said lines.

2,311,215
SCARFING MACHINE
David H. Duffy, Wichita, Kans., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Application May 18, 1942, Serial No. 443,379
7 Claims. (Cl. 144—144)



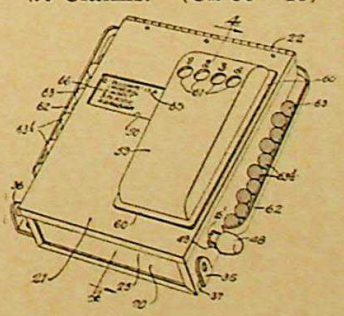
1. In a scarfing machine, a motor, a spindle cutter, and means to secure the same to the motor at its turning axis, a clamp and means to secure the same to the motor, a pair of arms to carry the clamp, said arms oppositely positioned and secured to the periphery of the clamp and extending from one side thereof, said arms converging outward from the clamp, rollers carried by each arm at their convergent ends and being spaced apart to receive sheets of material therebetween, and vertically disposed rollers to gauge the inward extension of the said sheet a predetermined distance inward of the arms to where the edge of the sheet material will meet the cutter.

2,311,216
CONTOURING MACHINE
David H. Duffy, Wichita, Kans., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Application May 18, 1942, Serial No. 443,381
5 Claims. (Cl. 144—144)



1. In a contouring machine, a grooved column vertically disposed, an arm having means on one end of the arm to slidably engage in the groove carrying the arm therewith, a motor carried by the arm, a cutter actuated by the motor and another arm secured to the motor to extend toward the column, rollers coaxial with each other and with the cutter and carried by said arm, guide tracks rotatably journalled and carried by the column, said tracks to be engaged by the rollers to rock and move the motor vertically, and means to secure a bulkhead blank to the guide tracks in working relation to the cutter and being contoured thereby as the said tracks are revolved.

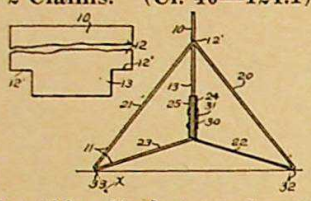
2,311,217
QUIZ GAME
George W. Emmert, Evanston, Ill.
Application March 31, 1941, Serial No. 386,142
20 Claims. (Cl. 35—48)



1. A questioner comprising a question carrier bearing indicia constituting a question and a set of answers—one of which is correct—associated therewith, a free playing element, a device removably receiving and mounting the question carrier and revealing the question and associated answers and having a set of element-receiving passages indicatively associated with the respective answers and leading to an element-receiving right answer region and to an element-receiving wrong answer region, and passage means in the question carrier and concealed by, and co-operating with, the device for diverting the element, when played into the passage corresponding to the correct answer, to the right

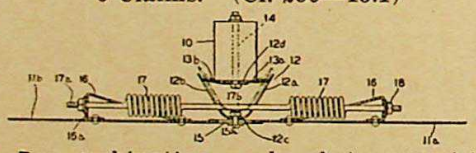
answer region and, when played into a passage not corresponding with the right answer, to the wrong answer region.

2,311,218
DISPLAY CARD
Victor H. Fandrich, Auburn, N. Y.
Application March 16, 1942, Serial No. 434,870
2 Claims. (Cl. 40—124.1)



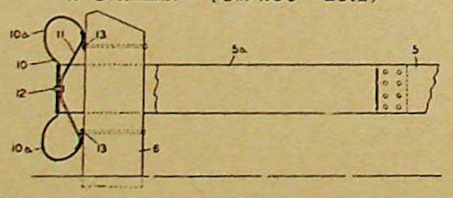
1. A collapsible display card comprising, in combination, a triangular base member and a vertically disposed panel member, said base member having a slot at its apex arranged intermediate the ends thereof, the bottom of said base having inwardly extending flanges of greater length than that of said slot, means securing the ends of said flanges to each other to provide a slot between them in substantial vertical alignment with the slot at the apex of the base, said panel comprising a body portion having a width substantially equal to the length of the base and an extension projecting downwardly through said slots.

2,311,219
BRACKET FOR HIGHWAY GUARDS
William S. Ferguson, Shaker Heights, Ohio
Application December 31, 1940, Serial No. 372,594
6 Claims. (Cl. 256—13.1)



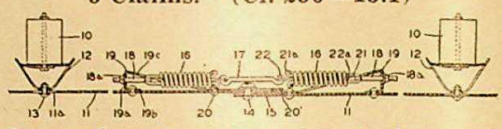
1. In combination, a bracket comprising a sheet of resilient metal bent to a hyperbolic curve in plan view, tongue portions struck out of said sheet and bent to form a chord of said curve, a post, said tongue portions secured to said post, and a guard rail secured to said bracket at the vertex of said curve.

2,311,220
GUARD RAIL END SUSPENSION
William S. Ferguson, Shaker Heights, Ohio
Application December 31, 1940, Serial No. 372,595
2 Claims. (Cl. 256—13.1)



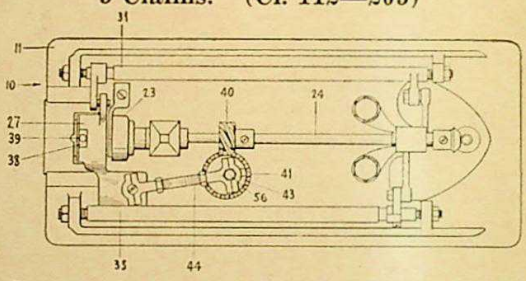
1. In guard rail construction, the combination of an end post, a flat guard strip ending thereat and secured thereto with its flat face vertical, said strip having a loop passing around said post, a flat spring between said loop and said post in position to tension said strip, said spring having rounded ends secured to said post, and a second flat spring extending lengthwise of said post and having its central portion secured to said loop and having free end portions adapted to slide on said rounded ends as said second spring is stressed.

2,311,221
GUARD RAIL CONSTRUCTION
William S. Ferguson, Shaker Heights, Ohio
Application December 31, 1940, Serial No. 372,596
5 Claims. (Cl. 256—13.1)



1. In combination, two alined elongated rail members having overlapping ends, means connecting said ends for limited relative movement longitudinally of said rail members, abutment means near said ends, one on each rail member, a plurality of springs detachably connected together in series assembly between said abutment means urging said ends in overlapping direction, said abutment means being spaced apart a predetermined standard distance, whereby a nonresilient member of standard length may be substituted for one of said springs for varying the total deflection provided in the spring assembly.

2,311,222
ZIGZAG SEWING MECHANISM
Joseph Galkin, New York, N. Y.
Application July 27, 1940, Serial No. 348,034
5 Claims. (Cl. 112—205)



1. In a sewing machine comprising a bedplate, a hook driving shaft and feed rock shafts, a feed-dog carrier and feed-dog mounted for sliding movements on spindles supported in parallel spaced relation with both of said rock shafts, said movements being transverse of the line of feeding, a presser-foot supported solely for up-and-down movements, a cloth plate having guideways, said cloth plate having a rectangularly shaped aperture intermediate said guideways, a needle plate slidably mounted in said guideways and having a stud extending downwardly therefrom and passing freely through said cloth plate aperture, a drive gear mounted on said hook driving shaft and being in meshed engagement with a driven gear, said driven gear being rotatably mounted on a vertical stud fixed in said bedplate, means for converting rotary into reciprocating motion mounted on said stud, a vibratable connection having ball joints at opposite ends, said vibratable connection being joined at one end to said motion converting means, said vibratable connection being joined at the opposite end to said feed-dog carrier for imparting direct transverse to-and-fro movements from said driven gear to said feed-dog carrier and feed-dog and permitting high speed up and down as well as forward and backward and sideways motions of the feed-dog carrier and feed-dog, said feed-dog carrier having an elongated through opening and said stud extending into contacting relation with the walls of said opening, said stud being positioned externally of said feed-dog and serving to connect said needle plate and said feed-dog carrier for simultaneous to-and-fro movement, when said feed-dog carrier is moved to-and-fro.

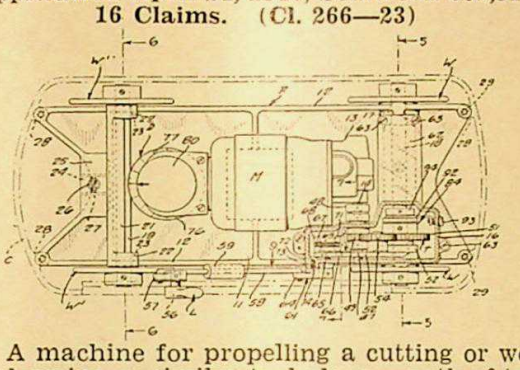
2,311,223

PORTABLE BLOWPIPE MACHINE

Frank C. Geibig, Westfield, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application April 24, 1940, Serial No. 331,314

16 Claims. (Cl. 266—23)



1. A machine for propelling a cutting or welding blowpipe or similar tool along a path of travel, comprising a wheel-supported carriage; tool-supporting means on said carriage; a handle projecting upwardly from said carriage and adapted to be grasped by the hand of an operator; an electric motor supported by said carriage and adapted to propel said carriage; an electric switch for said motor mounted within said handle; switch-operating means projecting upwardly from the top of said handle and movable in forward and backward directions so as to be operable by the thumb of the hand grasping said handle; and guard plates extending from said handle adjacent to said switch-operating means, to protect the latter, said guard plates forming a channel for guiding the motion of the thumb operating said switch.

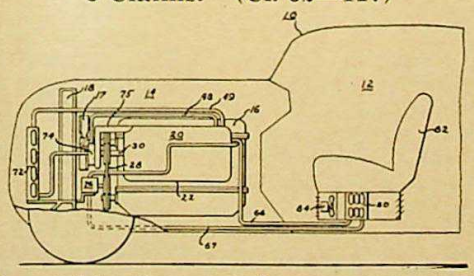
2,311,224

REFRIGERATING APPARATUS

Richard E. Gould, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application March 24, 1941, Serial No. 384,817

5 Claims. (Cl. 62—117)



1. In combination, a casing, a compressor within said casing, a condenser within said casing, an evaporator within said casing, refrigerant flow connections between said compressor, condenser and evaporator, a shaft seal for said compressor, and a shaft seal cooling cavity, said refrigerant flow connections comprising means for circulating liquid refrigerant from said condenser through said shaft seal cooling cavity and thereafter in thermal exchange with refrigerant vapor leaving said evaporator.

2,311,225

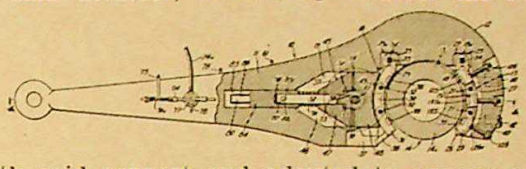
PIPE ROTATING APPARATUS

Donovan B. Grable, Long Beach, Calif.

Application January 8, 1940, Serial No. 312,946

14 Claims. (Cl. 81—57)

1. Pipe tongs comprising a body having a pipe receiving opening, a pipe gripping element, a member carried by and movable relative to the body to press said element into gripping engagement with the pipe, a support movable relative to said member, a rotating member movable



with said support and adapted to engage and rotate the pipe, and means carried by the body for moving the first mentioned member and said support.

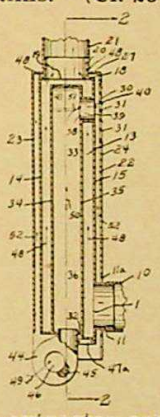
2,311,226

FLUE HEAT EXTRACTOR

James T. Grotenhouse, Orange City, Iowa, assignor to Silent Sioux Oil Burner Corporation, Orange City, Iowa, a corporation of Iowa

Application April 12, 1940, Serial No. 329,356

2 Claims. (Cl. 257—172)



1. A flue heat extractor comprising a heat extracting member attached to a flue for extracting heat therefrom, positive draft means attached thereto for forcing the heat thus extracted away from said heat extracting member, including blower members adapted to force air along the surface of said heat extractor member and outwardly therefrom, an inner hollow chamber communcating with said blowers, a hollow member surrounding and spaced from said inner chamber, means for passing flue gases exteriorly of said inner chamber and interiorly of said member to transfer heat from said flue gases to said inner chamber, an external casing spaced from said member, said external casing having an opening including a grill, said inner chamber having a passage communicating exteriorly of said member for the outlet of heated air, said grill being positioned adjacent to the outlet of said passage.

2,311,227

TYPEWRITING MACHINE

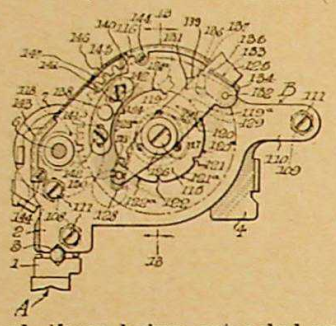
George F. Handley, Glendale, and William O. Michelsen, Woodhaven, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York

Application August 20, 1941, Serial No. 407,658

6 Claims. (Cl. 197—114)

1. In a typewriter or the like machine, a frame; a sheet-feeding cylinder mounted for rotation thereon; line-spacing means for effecting individual line-spacing movements of the cylinder; and complemental spacing means operable following one or more individual line spacing operations for positioning a work sheet in a predetermined position irrespective of the number of the preceding individual line-spacing move-

ments, said complemental spacing means comprising a disc in driving connection with the cylinder, a pawl, and means for oscillating the pawl bodily, the disc being provided with a plurality of circumferentially spaced driving contact portions adapted to be engaged and driven



by said pawl, there being extended smooth circumferential portions intervening between adjacent radial portions and over which the pawl may slide idly, the lengths of extended smooth circumferential disc portions differing according to a desired sequence of complemental work sheet feeding operations.

2,311,228

BAUXITE CERAMIC AND METHOD OF MAKING SAME

John Allen Heany, New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y.

No Drawing. Application June 29, 1936, Serial No. 87,826

6 Claims. (Cl. 106—65)

1. A vitreous-like, dense, non-porous, hard, amorphous, unfused and ignited bauxite containing a small amount of an alkali metal compound, possessing a conchoidal fracture and a hardness of approximately 74C–76C on the Rockwell scale hardness testing machine, said bauxite having been dehydrated before forming and firing at a temperature substantially below 1000° C.

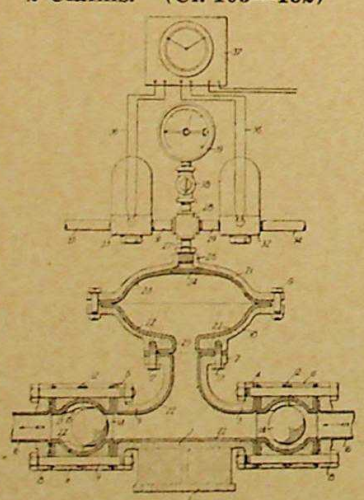
2,311,229

PUMP

Elmer H. Herbert, Oakland, Calif., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada

Application April 19, 1941, Serial No. 389,363

2 Claims. (Cl. 103—152)



1. A diaphragm pump comprising: a downwardly concave casing; an upwardly concave cover disposed over said casing; a diaphragm of pliable material clamped by its marginal edges between said casing and said cover, said diaphragm being arranged normally to conform to the contour of either the casing or its cover without any substantial stretching; a casing inlet conduit communicating with said casing and provided with an outwardly closing check valve; a casing outlet conduit communicating with said casing and provided with an inwardly closing check valve; valved inlet and outlet cover conduits communicating with the under side of said cover; and time-controlled means for actuating the valves in said cover conduits independently of the movement of said diaphragm.

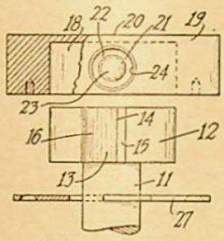
2,311,230

SPRING WINDING DEVICE

Charles Hill, Reno, Nev.

Application April 7, 1942, Serial No. 437,959

1 Claim. (Cl. 58—83)



In a spring winding device, in combination, a winding stem having an integrally formed cylindrical hub portion, a groove in the periphery of said portion extending transversely thereof and comprising a radial wall disposed at an acute angle to the diameter of the hub portion to provide a ball drop and an abutment wall, and an adjacent contiguous wall gradually sloping from the bottom of the radial wall and terminating at the peripheral surface of the hub in a rounded portion, said walls at their juncture constituting a ball seat, a ball carrier of cylindrical shape presenting an inner medial recess opening at one side of said carrier to receive the hub in closely fitting relation, said carrier having a bore radially thereof providing a straight threaded portion and a ball retaining conical portion, through which a ball extends into said hub groove, a ball in the bore, a threaded plug closing the threaded end of the bore, a spring between said ball and said plug and arranged to be tensioned by adjustment of the plug in said bore, so that the ball will yieldably connect the hub and carrier for turning movement until a spring being wound by the winding stem reaches a predetermined tension, and the ball being arranged to ride along said gradually sloping wall to reach the periphery of said hub to permit free turning movement of said carrier with respect to said hub, said ball being arranged to snap into said seat on succeeding revolutions of the carrier to produce an audible signal that the wound spring has been fully tensioned, a disk radially slotted for passage over the stem for positioning against the open side of said ball carrier and the disk extending over said hub to hold the same in place within said carrier, and means for attaching the disk to said carrier, and an externally knurled crown cap force fitted over said carrier to conceal the latter and the spring tensioning stud plug.

2,311,231

FASTENER FOR GARMENTS AND OTHER ARTICLES

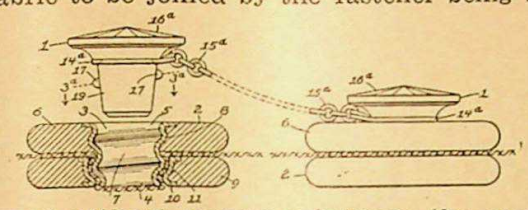
Arthur Illsche, Rye, N. Y.

Application April 16, 1940, Serial No. 329,901

10 Claims. (Cl. 24—221)

1. In a two-member fastener the members of which are adapted to be secured to separate pieces of fabric to be separably joined by the fastener, a female member formed of two parts, one part a tube of thin material open at one

end and provided with a single screw-thread formation in the body thereof that presents itself for use interiorly and exteriorly of the tube, and the other part a ring threaded on the end of the tube exteriorly thereof, one of the two pieces of fabric to be joined by the fastener being in-



terposed without puncture between the screw-threaded portions of the aforesaid parts and covering the engaged end of the tube, the opposite open end of which is exposed for entrance of the male member, the said male member attached to the second piece of fabric being suitably formed to engage the thread interiorly of the tube.

2,311,232

MANUFACTURE OF CATALYSTS

Vladimir Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 9, 1939, Serial No. 278,326

15 Claims. (Cl. 252—251)

1. A process for the manufacture of catalysts suitable for accelerating reactions among organic compounds, which comprises impregnating a solid adsorbent with anhydrous aluminum chloride under superatmospheric pressure and while the adsorbent is at a temperature above the vaporization point of the aluminum chloride.

2,311,233

MOLDING SYNTHETIC RESINS

Johannes Jaenicke, Herbert Knoop, Hermann Miedel, and Otto Schweitzer, Frankfort-on-the-Main, Germany, assignors to American Lurgi Corporation, New York, N. Y., a corporation of New York

No Drawing. Application January 19, 1939, Serial No. 251,834. In Germany January 25, 1938

7 Claims. (Cl. 260—41)

1. A moldable composition comprising an aqueous dispersion of a synthetic resinous polymerization product and a minor proportion, with respect to said resinous product, of a hydraulic cementitious material intimately mixed to form a gel-like composition.

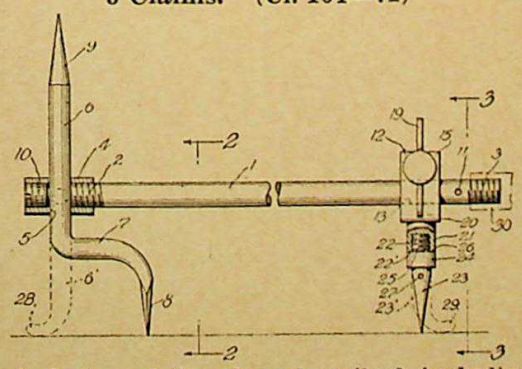
2,311,234

CUTTING AND GAUGING INSTRUMENT

Anthony Krajnc, Superior, Wis.

Application April 9, 1942, Serial No. 438,247

3 Claims. (Cl. 164—71)



1. A device of the class described, including in combination, a base, a V shaped block mounted at one end of said base, a standard mounted at the other end of said base, a clamp, a pin forming pivotal connection between said standard and said clamp, a horizontal rod adjustably mounted in said clamp, a coupling mounted on one end of said rod, a cutting unit mounted transversely in said coupling, a tube adapted to be rotated in said block, a collar carried by said tube in abutment with one end of said block, and a cutting roller mounted transversely with respect to said tube at the lower end of said unit adapted to be pressed against said tube when rotated.

2,311,235

DIABETIC AND DIETETIC FOOD PRODUCT

Joseph Kuderman, Detroit, Mich.

No Drawing. Application July 5, 1941, Serial No. 401,293

9 Claims. (Cl. 99—141)

1. A crystalline sweetening substance comprising sorbitol, mannitol and dulcin.

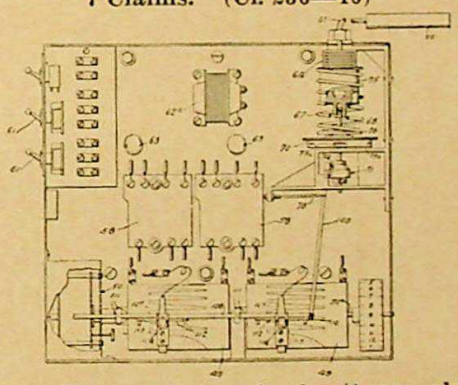
2,311,236

HEAT CONTROL APPARATUS

Henry T. Kucera, La Grange, Ill.

Original application December 28, 1935, Serial No. 57,449. Divided and this application November 7, 1941, Serial No. 418,130

7 Claims. (Cl. 236—46)



1. In a heating system for heating a plurality of zones, each having radiating units, electrically controlled means individual to each of said zones for alternately admitting and checking the flow of heating medium to the radiating units thereof, in cycles of a fixed predetermined frequency, with the periods of checking for one zone out of phase with respect to such periods for another zone or zones, thermostatic means subject to the prevailing temperature variations external to the zones to be heated by the system, and means controlled by said thermostatic means for automatically varying the proportion of elapsed time occupied by said periods of checking, to an extent, for all said zones, depending on said prevailing temperature variations, while maintaining said predetermined frequency, and said out of phase relationship.

2,311,237

HYDRAULIC EPICYCLIC TRANSMISSION DEVICE

William Henry Nathan Loveday, Aldbourne, Marlborough, England

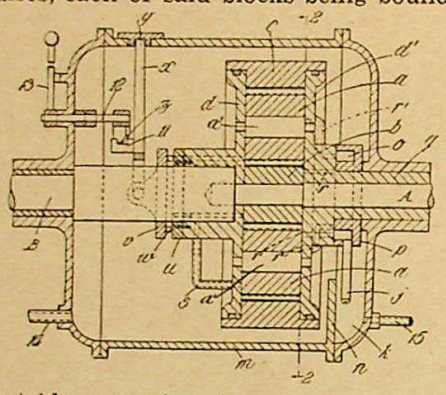
Application August 13, 1940, Serial No. 352,473

In Great Britain October 11, 1939

4 Claims. (Cl. 192—61)

1. An hydraulic epicyclic transmission device comprising a sun wheel, planet wheels in mesh with said sun wheel, a carrier for said planet wheels and an internally toothed outside gear

ring in mesh with said planet wheels, all said wheels and said carrier being mounted in a casing formed with bearings for a driving shaft and a driven shaft connected with said sun wheel and with said carrier respectively, said carrier being in the form of two discs concentric with said sun wheel and disposed on opposite sides thereof and carrying bearings for the ends of spindles for said planet wheels, the arrangement being such that spaces are formed between said gear ring and said planet wheels, blocks arranged in said spaces and secured to said discs, each of said blocks being bounded by



said outside gear ring, two planet pinions and said sun wheel and being formed with cut-back portions constituting, together with adjacent gear wheels, oppositely arranged feed and compression chambers, so that the sun wheel and each planet pinion may act as a gear pump and draw fluid, from a source of supply within said casing, through a feed chamber and pump it through a compression chamber, said compression chambers having outlets and means for controlling the passage of fluid therethrough, said means being adapted to set up an adjustable resistance to the fluid pumped through said compression chambers.

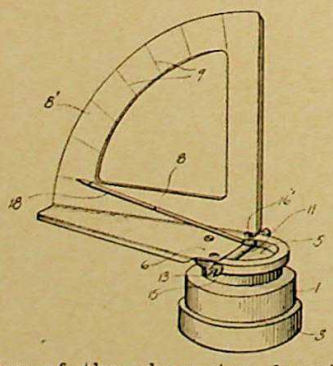
2,311,238

AIR-FLOW INDICATOR

Donald J. MacKinnon, Seattle, Wash.

Application August 29, 1941, Serial No. 408,850

3 Claims. (Cl. 73—228)



1. A device of the character described comprising a base member formed with an air passage of definite area, a gauge plate mounted on the base member, a valve disk mounted in the air passage adapted to be moved from closed toward open position in accordance with the velocity of air moving inwardly through the passage, a pointer fixed to the valve member to swing therewith and adapted, by reason of its weight, to urge the valve toward closed position and disposed at its end for movement along the gauge plate to indicate relative velocities of air passing through the passage; said base member being formed with an annular flange and an internal, downwardly facing shoulder adapted to be applied to the air inlet member of a carburetor to functionally mount the device.

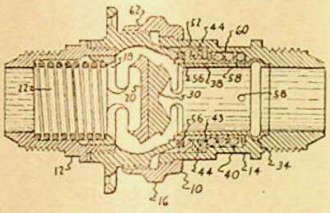
2,311,239

SELF-SEALING COUPLING

Donald W. Main and Friedrich Peter Hirsch, Jackson, Mich., assignors to Michigan Patents Corporation, Jackson, Mich., a corporation of Michigan

Application January 6, 1941, Serial No. 373,292

1 Claim. (Cl. 284—19)



In a coupling of the type described, an outer wall structure having a cylindrical bore, a cylindrical sleeve concentric with and spaced therefrom to form an annular chamber, a valve seat carried by an apertured end of said sleeve, a sleeve valve entirely confined in said chamber and having a cylindrical portion piloted upon said sleeve for axial movement, an annular radial portion upon said sleeve valve closely fitted in said bore, annular sealing means supported upon said sleeve valve upon opposite sides of said radial portion, one of said means constituting an outer main seal and the other a seal between said sleeve valve and said bore, and a spring embracing said sleeve and acting against said sleeve valve to move the same towards said seat.

2,311,240

COATING FOR PISTON RINGS

Charles A. Marien and Melvin W. Marien, St. Louis, Mo., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri

Application November 20, 1939, Serial No. 305,256

4 Claims. (Cl. 309—44)

1. A piston ring having a thin coating of iron and zinc phosphate and iron oxide.

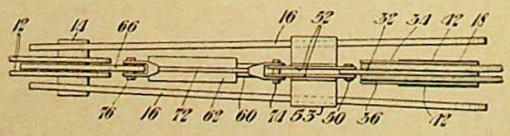
2,311,241

METHOD AND MEANS FOR ANCHORING SUSPENSION BRIDGE CABLE STRANDS

John T. Martin, Elizabeth, N. J.

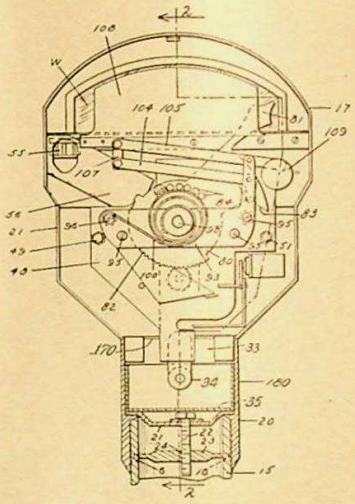
Application June 25, 1940, Serial No. 342,337

11 Claims. (Cl. 14—21)



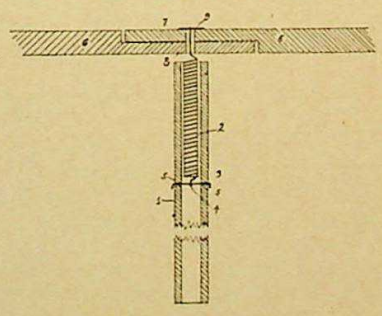
1. In the spinning of suspension bridge cables, the method which comprises arranging the component wire loops of a given strand in respective groups permanently segregated on opposite sides of a single strand shoe extending lengthwise of the bridge, applying a pulling force to the thus grouped strand loops along the center line of said shoe so as to properly adjust the strand as a whole, and then fastening the thus adjusted strand shoe to an anchorage.

2,311,242
PARKING METER
Frank L. Michaels, Fort Thomas, Ky.
Application July 3, 1939, Serial No. 282,645
4 Claims. (Cl. 194—92)



1. In a parking meter the combination of a manually rotatable pusher, a coin way disposed in part concentrically of said pusher, said coin way having a notched wall, below said concentrically curved part, the portion of the coin way opposite said notch defining a coin inspection station, an operating arm, a coin stop finger mounted on said arm swingable through said notch and normally disposed in said coin way for holding a coin in the coin way at said inspection station, a latch lever having one end normally blocking manual operation of said pusher, a pin on said end of said lever for supporting a deposited coin in the coin way in the path of said pusher whereby the coin is movable by said pusher to rock the said lever end away from blocking position, the other end of said lever engaging the operating arm for shifting the coin stop finger for releasing a previously deposited coin from the inspection station.

2,311,243
BOUNDARY LINE MARKER FOR GRASS BADMINTON COURTS
Rudolph Dixon Michael, Blacksburg, Va.
Application December 6, 1941, Serial No. 421,926
3 Claims. (Cl. 273—31)

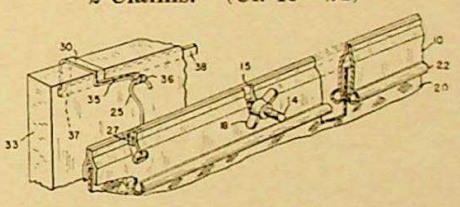


1. Means for marking the lines of lawn courts comprising, a plurality of marker strips having recessed ends, the ends of adjacent strips comating to form lap-joints, and yieldable means anchoring the joined ends of each two adjacent strips to the ground, whereby the strips are free to rise and fall while maintaining the top surfaces of the ends of adjacent strips flush with each other and with the ground.

2,311,244
METHOD OF MAKING FRICTION MATERIAL
Izador J. Novak, Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn., a corporation of New Jersey
No Drawing. Application February 9, 1939, Serial No. 255,453
10 Claims. (Cl. 92—21)

8. A method for forming an aqueous suspension of fibre in association with binder suitable for sheeting out on a wet machine, which comprises, adding a varnish base binder diluted in a suitable solvent to a mass of fibrous asbestos and intimately mixing said materials, evaporating substantially all of said solvent by heat to partially cure said binder and cause particles thereof to become firmly attached to said fibres, and thereafter beating said fibre-binder mass with water to form an aqueous suspension of said binder attached fibres.

2,311,245
STRETCHING DEVICE
John Pearl, Detroit, Mich.
Application June 28, 1940, Serial No. 342,879
2 Claims. (Cl. 45—24)

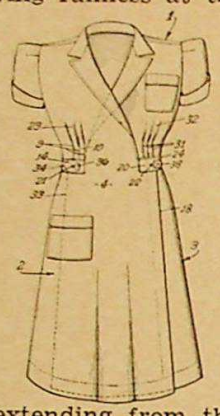


2. A stretching device for curtains and the like comprising a pair of clamping assemblies, one adapted to engage the material to be stretched along the upper edge and the other along the lower edge thereof, releasable means for tightening such clamping assemblies, the lower clamping assembly being of substantial weight, means for supporting the upper clamping assembly to allow the lower assembly to hang freely and impose its weight upon such material, each of said clamping assemblies comprising a pair of plate-like elements, said releasable tightening means including a plurality of studs projecting from one of said plate-like elements the other of said elements having a plurality of slots projecting inwardly from one edge and aligned with said studs, and means for suspending the upper assembly, comprising a pair of hooks, each formed of wire and projecting loosely through an aperture in the plate-like element which carries said studs, said apertures being aligned with the stud-receiving slots of the other element, whereby when said elements are assembled said hooks may also project through said slots, the lower extremities of said hooks having portions slidable through said apertures and bent angularly in a substantially horizontal plane, whereby the hooks may be disposed in various angular relations with respect to said upper plate-like assembly.

2,311,246
DRESS
Henry J. Pearl, Los Angeles, Calif., assignor of one-half to Harvey L. Barker, Los Angeles, Calif.
Application March 3, 1942, Serial No. 433,180
4 Claims. (Cl. 2—76)

1. A garment comprising one piece of material extending above and below the waist line, said piece of material having a waist band receiving notch with sides spaced apart and ex-

tending along the waist line from the back margin of said material to a point under the bust, pleats in said material at the bust side of said notch and giving fullness at the bust, a waist



band section extending from the back edge of said material and under said pleats and covering said notch, and seams securing the margins of said notch to the margins of said waist band section.

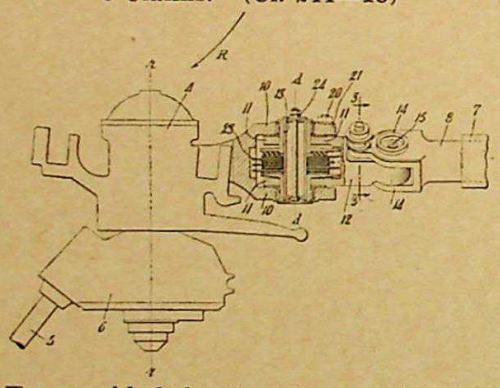
2,311,247

BLADE MOUNTING FOR ROTARY WING AIRCRAFT

Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application September 24, 1941, Serial No. 412,130

9 Claims. (Cl. 244—18)



2. For a bladed aircraft sustaining rotor adapted for free rotation, or alternatively for power drive by transmission of torque through the rotor hub, mounting mechanism for connecting a blade with the hub including a first pivot the axis of which is generally parallel to the rotor axis, and a second pivot located radially outboard of the first pivot and positioned with its axis obliquely inclined with respect to the rotor axis when projected on a plane generally perpendicular to the blade axis and containing the rotor axis.

2,311,248

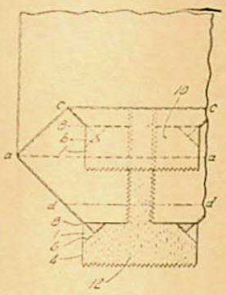
MULTIPLY SIFTPROOF BAG

George W. Poppe, Brooklyn, N. Y., assignor to Equitable Paper Bag Co. Inc., Long Island City, N. Y., a corporation of New York

Application July 11, 1941, Serial No. 401,947

1 Claim. (Cl. 229—59)

A multi-ply bag having a square folded end closure and having an inner and an outer ply, both of which plies are slit to form the bottom fold, an outer ply having spaced parallel longitudinal slits extending inwardly from the bottom edge in the unfolded condition of the bag and terminating at the respective diagonal fold lines, an inner ply having corresponding parallel longitudinal slits also extending inwardly from the bottom edge in the unfolded condition of the bag which slits are shorter than the longitudinal slits



of the outer ply, said inner ply also having diagonal slits meeting the longitudinal slits and extending from the longitudinal slits towards the longitudinal axis of the bag and terminating at the respective diagonal fold lines.

2,311,249

COMPOSITION OF MIXTURES OF VINYL AND ACRYLATE RESINS

George M. Powell, III, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application February 11, 1939, Serial No. 255,985

8 Claims. (Cl. 260—32)

1. A coating composition characterized by its adherence to metals, its resistance to light and heat and by its ability to be sprayed from solutions thereof without stringing, comprising a conjoint polymer of a vinyl halide with a vinyl ester of a lower aliphatic acid combined with a polymerized lower fatty alcohol ester of one of the group consisting of acrylic and methacrylic acids, said polymerized lower fatty alcohol ester being present in amounts from about 10% to about 25% by weight of the total resin content of said coating composition.

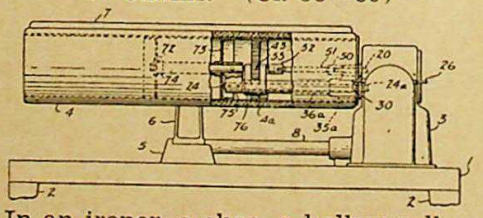
2,311,250

IRONING MACHINE

John W. Racklyeft, Cleveland, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application November 19, 1936, Serial No. 111,695

20 Claims. (Cl. 38—59)



20. In an ironer, a shoe, a hollow roll, a drive shaft extending axially within the roll, a driving gear within the roll on the shaft, an internal gear within and carried by the roll, said internal gear surrounding the driving gear and being movable into and out of mesh with the driving gear by bodily movement of the roll transverse to its axis and toward and away from the driving gear, means within the roll for supporting the roll for rotation and for said movement toward and away from the driving gear, shifting means for effecting engagement and separation of the roll and shoe and for moving the roll toward and away from the driving gear, and means providing a yielding support for one of said gears permitting yielding movement thereof away from

the other gear and independent of the position of the shifting means under the tooth reaction forces whereby jamming of the gear teeth is prevented as the teeth are moved into mesh.

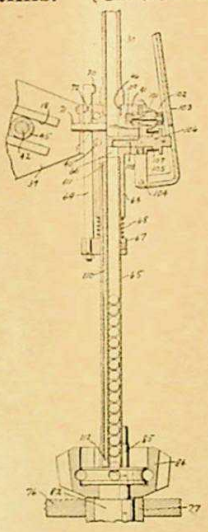
2,311,251

BALL-BEARING INJECTOR

Shropshire Ernest Rees, Henry E. Radack, John F. Olsen, and Charles H. Elliott, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application June 2, 1941, Serial No. 396,346

8 Claims. (Cl. 29—84)



1. In an apparatus for inserting anti-friction members in a bearing race through a passageway, a vertically reciprocable assemblage for feeding anti-friction members comprising a body having a channel for the passage of anti-friction members, a delivery tube communicating with the delivery end of said channel for delivering said members to said passageway, a stop movable into said channel for stopping the passage of anti-friction members through said channel and retractible to permit a supply of members to enter the delivery tube, a slide in said body movable into and out of said channel, said slide having a duct therein, adapted to communicate with a supply of fluid under pressure upon movement of the slide into the channel, for discharging fluid under pressure into the discharge tube above anti-friction members therein to force said members through said passageway, and means for bypassing a portion of said fluid and applying it to members discharging from the discharge tube to facilitate their displacement through said passageway into the race.

2,311,252

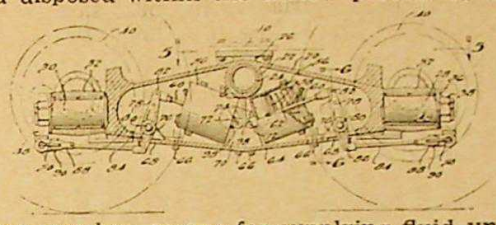
VEHICLE UNDERCARRIAGE AND BRAKE OPERATING MECHANISM

Frederick M. Reid, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a corporation of Michigan

Application July 31, 1941, Serial No. 404,750

10 Claims. (Cl. 188—152)

1. In a heavy duty vehicle, a chassis, a longitudinally extending hollow beam member, said beam member having an open side and being disposed with said open side downwardly, means pivotally mounting said beam member on said chassis, means mounting a pair of wheels at one end of said beam member, brake elements associated with each of said wheels, a plate member removably secured to the bottom edges of said beam member, a fluid operated piston and cylinder unit mounted on said plate member and disposed within the hollow portion of said



beam member, means for supplying fluid under pressure to said cylinder, and means operatively connecting said piston to said brake elements.

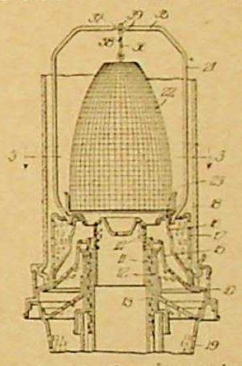
2,311,253

MANTLE SUPPORT

Harry Rinnman, St. Charles, Ill., assignor to Lindsay Light & Chemical Company, West Chicago, Ill., a corporation of Illinois

Application June 12, 1941, Serial No. 397,785

3 Claims. (Cl. 67—38)



3. A combined mantle support and burner cap for application to the gallery of a blue flame lamp of the wick type, comprising a ring having means for centering the same with respect to a portion of the gallery, an arched wire secured at its ends to the sides of the ring and provided at its top with a flattened and apertured portion, a hook having a vertical shank which extends upwardly through said portion, in loosely associated relation with the latter, and a mantle suspended from the hook in centered relation to the ring, said shank having enlargements both above and below the apertured portion of the arched wire, with the lower enlargement spaced slightly below said portion, whereby to prevent any substantial endwise movement of the shank while allowing for sufficient movement to absorb shocks and jars.

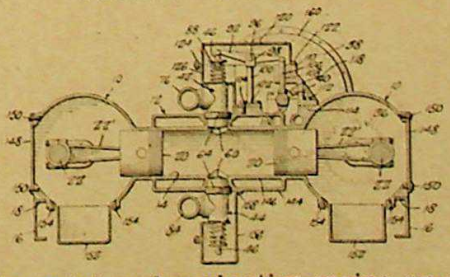
2,311,254

ENGINE

Sidney C. Raybon, Dawson, Ga.

Application December 16, 1940, Serial No. 370,410

5 Claims. (Cl. 123—51)



4. In an internal combustion engine, an engine block having a plurality of cylinder bores having their axes lying in a common plane, each cylinder bore being provided with two oppositely travelling pistons coacting with the cylinder bore to

provide a combustion chamber between the two pistons, intake valves communicating with the respective combustion chambers and aligned along one side of said engine block, exhaust valves communicating with the respective combustion chambers and positioned on the other side of said engine block, a cam shaft located along said one side of the engine block, rocker arms aligned along said one side of the engine block and actuated by said cam shaft, certain of said rocker arms being operatively connected with said intake valves, said engine block being provided with guide openings, operating connections extending through said guide openings and operatively connecting the other rocker arms with said exhaust valves, said cylinder bores having their axes lying in a common horizontal plane, said intake valves being located on the top side of the engine block, and said exhaust valves being located on the bottom side of the engine block.

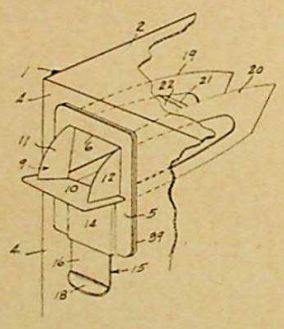
2,311,255

SELF-ATTACHING POURING SPOUT FOR RECEPTACLES

Arthur Read, Portland, Oreg.

Application April 5, 1941, Serial No. 387,036

1 Claim. (Cl. 221—23)



A pouring spout for cartons comprising, a supporting plate, an aperture formed in the supporting plate, a pouring spout hingedly attached to the supporting plate adjacent one edge of the aperture therein and adapted in one position to serve as a closure for the aperture and in another to control dispensing action, cutting means carried by and extending rearwardly from the supporting plate and adapted to form an aperture in a carton when thrust through a wall thereof, said aperture in the carton wall being defined by three cut sides to form a tab, means fixedly secured to the cutting means for maintaining the tab in an elevated position with respect to the aperture in the wall of the carton, means for locking the supporting plate to the carton wall, said locking means comprising an inverted U shaped clamp slidably attached to the supporting plate and adapted to engage the apertured wall of the carton.

2,311,256

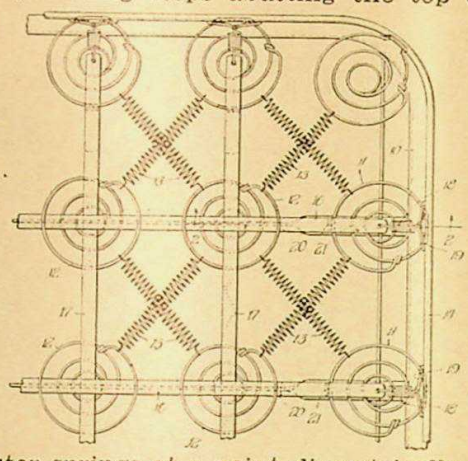
SPRING CONSTRUCTION

Ward T. Sark, Oak Park, Ill., assignor to Haggard and Marcusson Co., Chicago, Ill., a corporation of Illinois

Application January 6, 1941, Serial No. 373,239

4 Claims. (Cl. 5—275)

1. In means for preventing the bending of the border of a spring structure, and for stabilizing said structure, a series of spaced springs, the top coils of a plurality of the outer springs of which are immovably fixed to said border, flat strips overlying the springs and extending between the members constituting the respective sides of the border, helical springs connecting the ends of the strips to the border, the strips having a double thickness at their ends between which the top coil of the outer springs is confined, said strips providing stops abutting the top coil of



the outer springs at a point diametrically opposite the point of engagement of said top coil with the border, whereby the initial tension of said helical springs is exerted against said top coil and is thus neutralized in relation to the border.

2,311,257

ELECTROLYTIC BERYLLIUM AND PROCESS

Charles B. Sawyer, Cleveland Heights, and Bengt Kjellgren, Rocky River, Ohio, assignors to The Brush Beryllium Company, Cleveland, Ohio, a corporation of Ohio

Application August 2, 1939, Serial No. 287,868

10 Claims. (Cl. 204—39)

1. A process for producing sheets of electrolytic beryllium, said process comprising the steps of: providing a conductive fused chloride electrolyte which contains at least about 30% of beryllium chloride and which is substantially free from elements which, if present, would tend to be deposited electrolytically with the beryllium; providing an insoluble anode, and a cathode surface composed predominantly of a metal selected from the group consisting of aluminum and beryllium; electrolytically decomposing said electrolyte to deposit beryllium upon said cathode surface at a nominal cathode current density of about .1 to 4 amperes per square decimeter while maintaining the temperature of the electrolyte and the cathode between about 290° C. and 500° C.; continuing said decomposition and deposition to form a layer of the desired thickness; and thereafter stripping the deposited layer from said cathode.

2,311,258

COLLET CHUCK

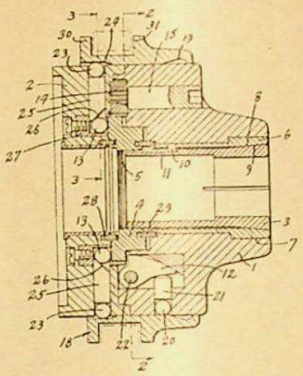
Knut R. Sjogren, Los Angeles, Calif.

Application January 26, 1942, Serial No. 428,217

6 Claims. (Cl. 279—53)

1. In a chuck, a body, a spring collet, a bushing having tapered surfaces into which said collet is drawn to contract said collet, a planetary gear carried by said body and threaded to said spring collet, said planetary gear being slidably and rotatably mounted in said body whereby rotation of said planetary gear will adjust said collet in its position in relation to said bushing, and whereby sliding of said planetary gear draws into or expels said collet from said bushing, means for rotating said planetary gear, dogs operated by pins and balls for sliding said planetary gear in one direction, pins and balls for sliding said planetary

gear in the other direction, and a clutch ring surrounding said body having tapered surfaces



for respectively releasing or engaging either said dogs, pins and balls, or said pins and balls.

2,311,259

PLASTIC COMPOSITION

Charles E. Staff and William N. Stoops, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application June 8, 1940, Serial No. 339,490

9 Claims. (Cl. 260—36)

3. A plastic composition comprising a vinyl resin and a plasticizer, said plasticizer being di(2-ethylhexyl) methyl hexahydrophthalate.

2,311,260

ESTERS OF ENDO-METHYLENE HYDROPHTHALIC ACIDS WITH GLYCOL AND POLYGLYCOL MONOETHERS

Charles E. Staff, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application October 18, 1941, Serial No. 415,632

9 Claims. (Cl. 260—468)

1. As new chemical compounds, alkylene glycol monoether diesters of endo-methylene hydrophthalic acids, said acids having not more than one double bond.

2,311,261

ESTERS OF ENDO-METHYLENE HEXAHYDROPHTHALIC ACIDS WITH HIGHER ALIPHATIC ALCOHOLS

Charles E. Staff, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application October 18, 1941, Serial No. 415,633

3 Claims. (Cl. 260—468)

1. As new chemical compounds, diesters of endo-methylene hexahydrophthalic acids with aliphatic acyclic alcohols having at least six carbon atoms.

2,311,262

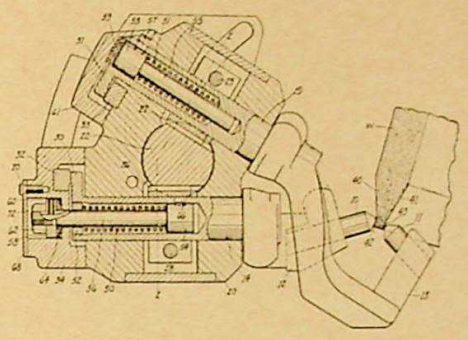
DRESSING MECHANISM

Arthur L. Stewart, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York

Application June 3, 1940, Serial No. 338,562

2 Claims. (Cl. 125—11)

1. Dressing mechanism comprising a support, a shaft oscillatably and slidably mounted on said support, an arm secured to one end of said shaft, a dressing tool mounted in said arm, a second arm secured to the opposite end of the shaft, a cam and a follower, one of which is secured to the second arm and the other to said support, a plunger mounted within the bore of said shaft to



rotate with said shaft but to slide axially relative thereto, a coil spring interposed between the shaft and plunger to hold the follower resiliently in engagement with the cam, said plunger having an enlarged head at its rear end, means for swinging said shaft, and brake means engaging said head to apply a light frictional load on said shaft during its swinging movement.

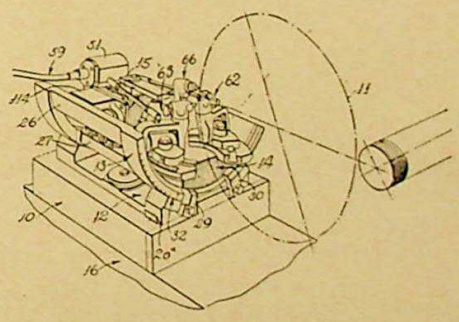
2,311,263

DRESSING DEVICE FOR GRINDING WHEELS

Gilbert Stewart, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

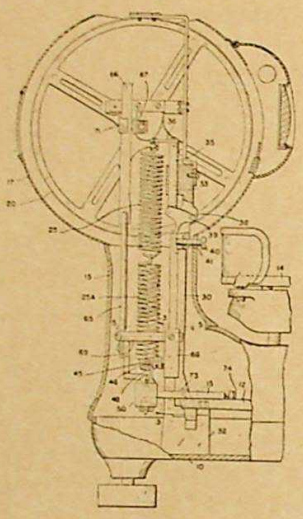
Application October 17, 1940, Serial No. 361,608

14 Claims. (Cl. 125—11)



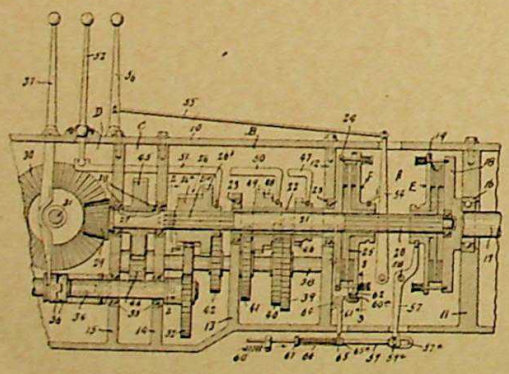
1. A dressing device for grinding wheels having, in combination, a support, a base mounted on said support for adjustment about a vertical axis, an arcuate cradle carried by said base for adjustment according to the helix angle of the grinding wheel to be dressed, a first slide carried by said cradle for reciprocatory movement toward and away from the grinding wheel, a plurality of dressing tools, means individually supporting each of said dressing tools for adjustment on said slide relative to each other and to the grinding wheel and including pivot means permitting swinging movement of said dressing tools across a surface to be dressed, a second reciprocatory slide mounted on said first slide, individual driving connections between said second slide and each of the dressing tool supporting means, means for driving said second slide through a reciprocatory stroke, means for imposing a greater frictional resistance to movement between said first and second slides than between said first slide and said cradle, and means for limiting the extent of movement of said first slide.

2,311,264
WEIGHING SCALE
Walter F. Stimpson and Modeste J. Lachance, Louisville, Ky.; said Lachance assignor to said Stimpson
Application June 21, 1939, Serial No. 280,358
2 Claims. (Cl. 265—68)



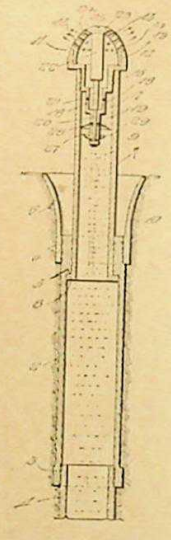
1. In a weighing scale, in combination with load-receiving means, a nose iron actuable thereby, weight indicating means arranged above the nose iron, load-counterbalancing tensile spring means extending upwardly from said nose iron, stirrup means connecting the spring means and nose iron, an actuating rod member for said weight indicating means pivotally connected to said stirrup means and extending upwardly beside said spring means on the opposite side thereof from said load-receiving means, an overbalancing weight assembly attached to said rod member and extending on either side of said spring means, all portions of said overbalancing-weight assembly which extend on opposite sides of and beyond said spring means being spaced farther apart than the maximum diameter of said spring means, and the rod means and spring means being aligned with said nose iron.

2,311,265
TWIN CLUTCH POWER TAKE-OFF DRIVE FOR TRACTORS
Emil F. Stumpf, Valmeyer, Ill.
Application March 5, 1941, Serial No. 381,800
9 Claims. (Cl. 74—326)



1. In a tractor, an engine shaft, a transmission shaft disposed coaxially with said engine shaft, a power delivery shaft disposed coaxially with said transmission shaft, a friction clutch for connecting and disconnecting said engine shaft and said transmission shaft, a tubular transmission shaft mounted on the first transmission shaft, a friction clutch for interengaging said tubular shaft with said transmission shaft, a power takeoff shaft disposed under said power delivery shaft, a transmission countershaft, gearing connecting said transmission shaft with said power takeoff shaft, gearing connecting said countershaft with said power delivery shaft, gearing for selectively interengaging said transmission shafts with said countershaft, means for disengaging said first clutch to stop both the power delivery shaft and said power takeoff shaft, and means for disengaging said second clutch to stop the operation of said power delivery shaft through the selective gearing of said tubular shaft.

2,311,266
LAWN SPRINKLER
Tony Svet, Cleveland, Ohio
Application November 13, 1941, Serial No. 418,964
3 Claims. (Cl. 299—61)

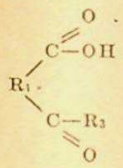


1. In a sprinkler, a tubular body of a length adapting it to be buried in the ground and have its lower end connected with a conduit, a sleeve slidable vertically in the body from retracted position to raised position, a nozzle carried by the upper end of said sleeve and having a shank detachably connected with the sleeve and provided with a neck extending longitudinally in the sleeve in spaced relation to the wall thereof, and upper and lower screens mounted on the lower end of the neck, the lower screen having its marginal edge spaced from the wall of the sleeve and the upper screen being of appreciably greater diameter than the lower screen and having its margins contacting with walls of the sleeve.

2,311,267
MERCURATED ALKYL AMIDES OF DIBASIC PHENYLENE ACIDS AND HOMOLOGUES THEREOF
Donalee L. Tabern, Lake Bluff, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
No Drawing. Original application May 15, 1939, Serial No. 273,725. Divided and this application June 1, 1942, Serial No. 445,318
6 Claims. (Cl. 260—434)

1. A compound selected from the group consisting of mercurated alkyl amides of dibasic

aromatic acids and salts thereof in which the acids are represented by the following formula



in which R_1 is selected from the group consisting of phenylene and homologues thereof, and R_3 represents the mercurated alkyl amide group.

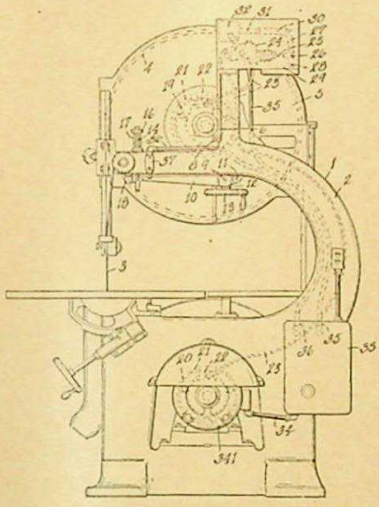
2,311,268

AUTOMATIC BAND SAW BRAKING MECHANISM

Carl E. Tannewitz, Grand Rapids, Mich.

Application July 7, 1941, Serial No. 401,355

10 Claims. (Cl. 143—17)



3. In an automatic mechanism of the type described for a band saw including a frame and a saw blade guide wheel, an adjustable mounting for the guide wheel, a support pivoted on the frame, an adjusting member adjustably mounted on said support engageable with the wheel mounting for adjusting the same, resilient means resisting the pivotal reaction movement of said support in the opposite direction upon vertical adjustment of the wheel, said support being shifted vertically by said means when the saw blade breaks, a control element engageable and actuated by the support during said last named shifting movement thereof, and a dog pivoted on said support preventing actuating engagement of the support and control element in operative position of the dog, said dog being swingable to inoperative position when the tension of the blade is properly adjusted by adjustment of said wheel.

2,311,269

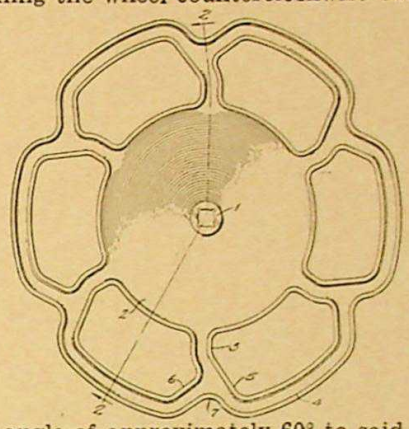
HANDWHEEL

Edwin E. Van Cleave, Chicago, Ill.

Application July 13, 1940, Serial No. 345,301

2 Claims. (Cl. 74—552)

1. A handwheel adapted to be mounted on a horizontal axis to be operated by a man standing at one side thereof, comprising a central portion, spokes, and rim sections, each rim section having inwardly turned portions at its ends respectively adapted to be grasped by the operator to turn the wheel in opposite directions, each of said inwardly turned portions meeting the inwardly turned portion of the adjacent rim section, the inwardly turned portion for use in turning the wheel clockwise extending at an angle of approximately 35° to a radius extending to the point of meeting of the inwardly turned portions, and the inwardly turned portion for use in turning the wheel counterclockwise extending



at an angle of approximately 60° to said radius, whereby the operator's wrist will be bent at only a small angle when either of said inwardly turned portions are grasped, the spokes extending from said central portion to said point of meeting.

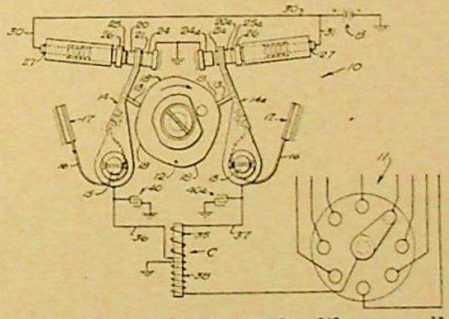
2,311,270

ELECTRICAL CIRCUIT BREAKER SYSTEM FOR IGNITION SYSTEMS AND THE LIKE

Albert G. H. Vanderpoel, Los Angeles, Calif., assignor to California Machinery & Supply Co., Ltd., Los Angeles, Calif., a corporation of Delaware

Application April 25, 1941, Serial No. 390,270

2 Claims. (Cl. 123—148)



1. In ignition systems or the like, a coil having primary and secondary windings and a magnetizable core, a source of current for energizing the primary winding of said coil, electric circuiting including a power operated pole changing switch for conducting current from said source to the primary winding of the coil, said pole changing switch being movable between two positions to reverse the direction of current flow to the coil, and said pole changing switch operating to break the circuit at two points successively in moving in either direction between said two positions, and condensers connected across the points at which the circuit is first broken as the switch is moved between said positions.

2,311,271

ADHESIVE

Willis C. Ware, Chicago, Ill., assignor, by mesne assignments, to Industrial Abrasives, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application November 9, 1938, Serial No. 239,603

2 Claims. (Cl. 106—82)

1. As a new composition of matter, a hard

bonding heat resisting adhesive capable of setting at normal atmospheric temperatures and comprising substantially three hundred and fifty parts of a low ratio silicate of soda solution containing no more than two parts silica to one part sodium oxide, and an admixture of one and three quarters parts of sulphonated castor oil, one hundred parts of aluminum silicate, seven parts of zinc oxide, and twenty-five parts of a coloring agent selected from the group consisting of umber and sienna.

2,311,272

ADHESIVE

Willis C. Ware, Chicago, Ill., assignor, by mesne assignments, to Industrial Abrasives, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application February 6, 1939, Serial No. 254,807

9 Claims. (Cl. 106—82)

1. As a new composition of matter, a hard bonding heat resisting adhesive comprising a mixture of low ratio sodium silicate solution embodying no more than two parts silica to one part sodium oxide and a high ratio sodium silicate solution embodying more than two parts silica to one part sodium oxide, and a lesser amount by weight of a body forming agent chemically reactive with the low and high ratio sodium silicate mixture and selected from a group consisting of aluminum silicate, silica, calcium carbonate and magnesium silicate, the low ratio sodium silicate solution being in sufficient amount to act as a plasticiser for the material and eliminate brittleness and the high ratio sodium silicate solution being in sufficient amount to counteract or balance the hydroscopic tendencies of the low ratio solution in order that moisture absorption on the part of the last mentioned solution will not materially weaken or change the normal bonding properties of the material as a whole.

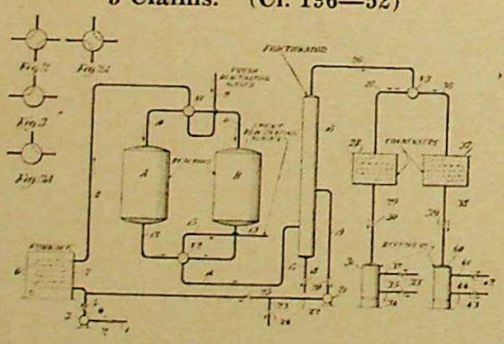
2,311,273

HYDROCARBON CONVERSION

Kenneth M. Watson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application April 6, 1940, Serial No. 328,201

5 Claims. (Cl. 196—52)



4. A hydrocarbon oil conversion process which comprises providing a bed of freshly reactivated cracking catalyst at a temperature in the range of 750 to 850° F., continuously passing through said bed during its processing period a stream of hydrocarbons heated to a temperature in the range of 900 to 1050° F., maintaining the catalyst bed during the initial portion of said period at relatively low conversion temperature such as to produce a substantially saturated gasoline, and, during a subsequent portion of the processing period, maintaining said bed at higher conversion temperature such as to produce an unsaturated gasoline, and separately collecting said substantially saturated gasoline and said unsaturated gasoline.

2,311,274

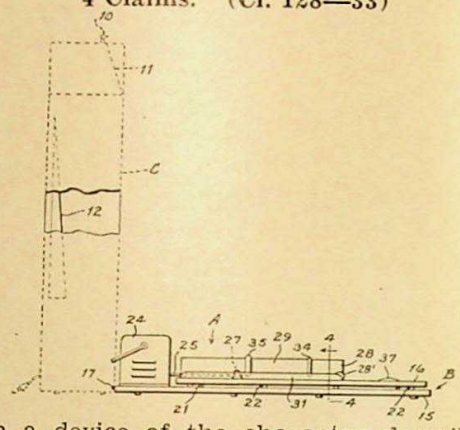
FOOT EXERCISING APPARATUS

Kenneth B. Whitney, Toronto, Ontario, Canada

Application October 10, 1940, Serial No. 360,683

In Great Britain October 14, 1939

4 Claims. (Cl. 128—33)



1. In a device of the character described, a base member and a platform member, the said base and platform members being provided with spaced receiving sockets arranged in opposed relationship to one another for the reception of spacer means, spacer members mounted in the sockets and movable therein, means for resiliently connecting the platform to the base member comprising resilient members mounted in the base and platform members respectively in spaced relationship to one another, means connecting the spaced resilient members to resiliently connect the platform to the base member, a foot receiving member mounted on the platform having opposed foot receiving surfaces slopingly arranged at an appreciable angle to the horizontal from a medial ridge, spaced rib members extending from side to side of the foot receiving surfaces and protruding thereabove and drive means operatively connected to the platform for imparting vibration to the said platform.

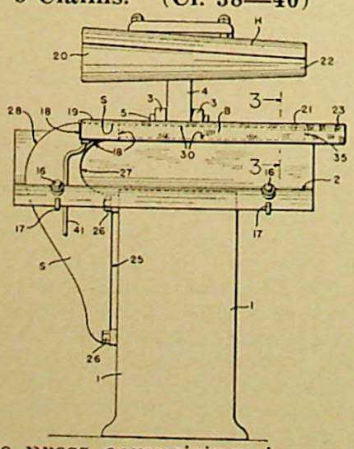
2,311,275

SLEEVE IRONING PRESS

Floyd A. Wiegman and George R. Young, Chicago, Ill., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York

Application July 24, 1939, Serial No. 286,046

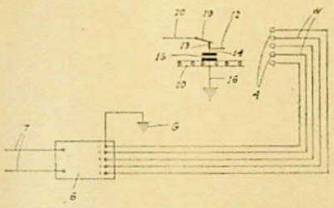
5 Claims. (Cl. 38—40)



1. A sleeve press comprising, in combination,

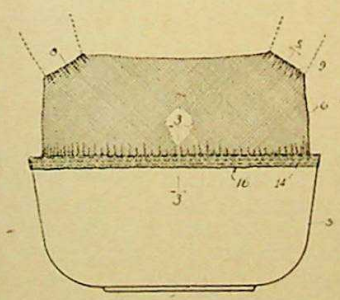
a frame, a buck, and a head pivoted on the frame and adapted to swing up and down in relation to the buck, the buck being tapered to receive a sleeve thereon and longer than the head by approximately a cuff length, which adapts a sleeve to be drawn on to the buck with the cuff of the sleeve at rest on the buck beyond the ironing area of the head, a clamp pivoted on the frame and arranged to swing alongside and in close relation to the pivoted head to grip the cuff in its non-ironing position, and means under the control of the operator to swing the clamp up and down in relation to the buck.

2,311,276
CONTACT GLOVE
William H. Wilcox, Stockton, Calif., assignor to California Cedar Products Company, Stockton, Calif., a corporation of California
Original application October 17, 1938, Serial No. 235,476. Divided and this application September 3, 1940, Serial No. 355,203
8 Claims. (Cl. 175—265)



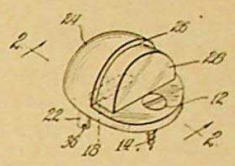
1. A device for charging potential holding elements with a selected one of different charges, said device comprising a plurality of contact elements adapted to be supported on the fingers of an operator's hand, a separate wire leading to each contact element, and a power supply unit connected to said wires and supplying current of different potentials but like polarity to all but one of said contact elements; the power supply unit supplying current of opposite polarity to said one contact element.

2,311,277
HOOD
Helen J. Williams, Huntington Park, Calif.
Application September 26, 1940, Serial No. 358,401
5 Claims. (Cl. 65—16)



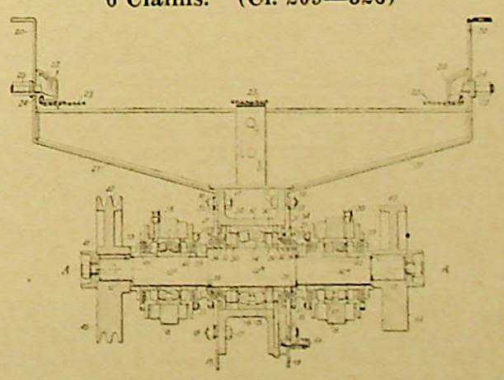
1. In a closure for a bowl and the like, a transparent hood shaped to provide a fullness when applied to the container, said hood having at least one hand hole and a lower free edge, elastic bands incorporated in said hood in parallel relation and substantially laterally spaced from each other, and one of said bands being located in the said lower free edge to be placed around the upper edge of the bowl and the other band being located to annularly constrict the hood immediately above the bowl edge, to maintain the hood in position on the bowl.

2,311,278
BUILDER'S HARDWARE
Elvin H. Johnson, Winnetka, Ill.
Application April 14, 1941, Serial No. 388,371
9 Claims. (Cl. 16—86)



1. A door bumper of the type adapted for mounting on a floor, comprising, in combination: a base plate adapted to lie on the floor; a hollow dome integral with said base plate and defining a cup-shaped cavity having an approximately spherical upper wall at one end of said plate, an opening lying in a transverse vertical plane and facing toward the opposite end of said plate, and a flat bottom wall constituted by part of said base plate; a resilient one piece rubber cushioning member having a portion shaped to fit snugly in said dome, and a portion projecting from said first portion past the plane of said opening; a stud threaded through a central portion of said bottom and projecting below the said bottom and above the said bottom at least to near the top of said cavity; said first cushioning member portion having a bore to receive said stud; said projecting portion having substantially the shape of a right cylinder; said bore, in the undistorted condition of said member lying farther from the closed end of said cavity than the axis of said stud, whereby said stud forces said member out of its undistorted condition and maintains local compression strain and stress in said member, in the space between said stud and the closed end of said cavity; said base plate having an opening in the end remote from said cavity to receive a fastening member for fastening said base plate to a floor.

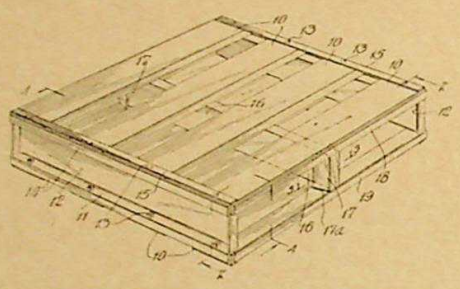
2,311,279
SCREENING APPARATUS
Walter J. Parks, Shaker Heights, Ohio
Application May 13, 1939, Serial No. 273,529
6 Claims. (Cl. 209—326)



1. In a screening apparatus of the character described, the combination of a gyratory body, a substantially horizontal drive shaft extending substantially centrally through said body and having an eccentric portion centrally thereof, a single self-aligning bearing in said body for gyrating the same, said bearing engaging said eccentric portion at substantially the central portion of the latter, and means for supporting said gyratory body for gyrating movement, said means including resilient body supporting members constructed and arranged to permit substantially universal movement of said body in a

plane perpendicular to said shaft and also a limited tilting movement thereof in a plane substantially parallel to said shaft.

2,311,280
REVERSIBLE PALLET
George Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application June 3, 1939, Serial No. 277,249
8 Claims. (Cl. 248—120)



1. In a reversible pallet of the class described, upper and lower floors formed of boards secured in assembled relation to metal structural members, a wood beam between said floors and in contact with the boards of said floors, and beam armoring metal members secured between the metal structural members of said upper and lower floors at each end of said beam whereby to protect the ends of said beam.

2,311,281
METHOD OF PREPARING DISUBSTITUTED CYANAMIDES
Richard O. Roblin, Jr., Stamford, and Ingenuin Hechenbleikner, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 23, 1939, Serial No. 275,226
9 Claims. (Cl. 260—551)

1. The method which comprises reacting equimolecular quantities of cyanogen chloride and a disubstituted amine, the hydrochloride of which is reactive with an aqueous alkali solution to regenerate the amine, the amine being carried in an inert organic solvent, thus forming the corresponding disubstituted cyanamide and amine hydrochloride, regenerating quantities of the amine by reacting the same with aqueous alkali, separating and recovering the disubstituted cyanamide.

2,311,282
NITRATED BORNYL PHENOLS AND THE METHOD OF PREPARING THE SAME
Richard O. Roblin, Jr., and Ingenuin Hechenbleikner, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 31, 1940, Serial No. 316,542
12 Claims. (Cl. 260—619)

1. A method of preparing a nitrated bornyl phenol which comprises reacting bornyl phenol with sulphuric acid to produce a bornyl phenol sulphonic acid, diluting the bornyl phenol sulphonic acid with water, reacting the bornyl phenol sulphonic acid in dilute aqueous solution with nitric acid, separating and recovering the nitrated bornyl phenol from the reaction mixture.

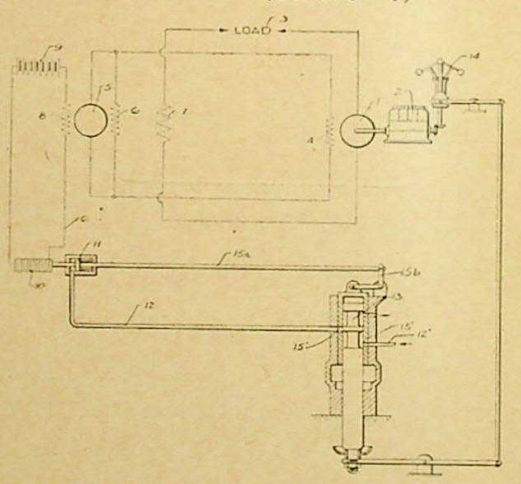
2,311,283
DINITRO ALKYL PHENOLS AND METHOD OF PREPARING THE SAME
Richard O. Roblin, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 14, 1940, Serial No. 370,135
5 Claims. (Cl. 260—622)

1. A dinitro diamyl phenol.

2,311,284
PLASTIC MATERIAL
Chester Snyder, Yonkers, N. Y., assignor to Liatex Corporation, New York, N. Y., a corporation of New York
No Drawing. Application August 26, 1939, Serial No. 292,037
3 Claims. (Cl. 260—28)

1. A plastic, comprising reaction products of alkaline polysulphides and olefin compounds containing the group C_nH_{2n} combined with sulphur dichlorhydrin plastic, "neoprene," ozokerite and sulphur in the proportions of about 200 parts by weight of said reaction products, 25 to 100 parts sulphur dichlorhydrin plastic, 25 to 100 parts "neoprene," 1 to 8 parts ozokerite and 10 to 300 parts sulphur.

2,311,285
CONSTANT LOAD CONTROL FOR ENGINE GENERATOR UNITS
John J. Stamm, Chester Heights, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application August 12, 1941, Serial No. 406,563
5 Claims. (Cl. 290—7)

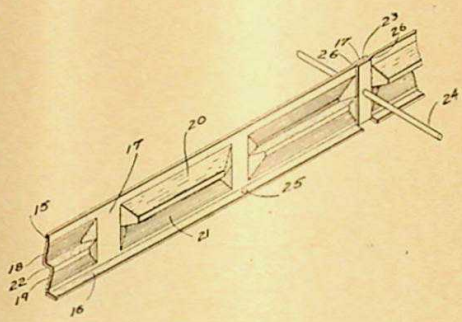


1. A regulating system for an engine and a generator driven thereby comprising, in combination, a generator exciter having a differential exciter field, and means for variably controlling the excitation of the exciter field automatically in accordance with variations in engine speed from a predetermined value so as to maintain the engine substantially at a constant output.

2,311,286
PAVEMENT JOINT
Robert B. Tufts, Atlanta, Ga.
Application May 8, 1940, Serial No. 334,046
1 Claim. (Cl. 94—17)

A joint for meeting edges of concrete slabs comprising a series of pairs of projecting ledges; each pair comprising a ledge projecting from the lower portion of the edge of one slab and a

similar ledge projecting from the upper portion of the edge of the meeting slab; each of said meeting edges formed with complemental cavities to receive the opposing ledge; the lower and upper ledges of adjacent pairs projecting in opposite directions at said meeting edges; opposed faces of the ledges of the pairs lying adjacent a common horizontal plane whereby one ledge of each pair of forms a support for



the other thereof; a face of each ledge inclined to a vertical plane through the joint passing through the center of the horizontal faces of the ledges and merging into said vertical plane to provide straight line joints at the top and bottom of the pavement; and a coating of compressible material carried by at least one of the meeting edges and covering the faces of the ledges including the horizontal faces thereof.

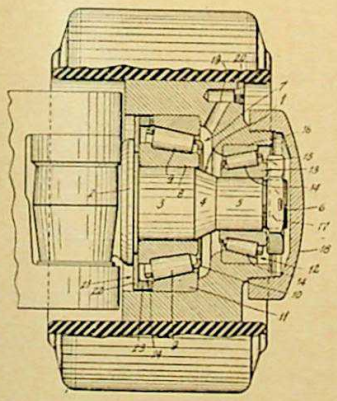
2,311,287

BEARING SEAL

Ernest G. Boden, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application August 29, 1940, Serial No. 354,673

2 Claims. (Cl. 308—187.1)



1. A wheel and axle assembly comprising an axle having a shoulder thereon, a wheel, a tapered roller bearing between said axle and said wheel and comprising an inner raceway member, an outer raceway member and rollers between said raceway members and tapering toward the adjacent end of the axle, and a sealing device between said shoulder and the large end of said inner raceway member, said sealing device consisting of a wide washer, a sealing ring and a ring of sponge neoprene vulcanized flatwise to both said sealing ring and the outer margin of said washer, the inside diameter of said washer being less than the outside diameter of the thick end of said inner bearing member, whereby the inner margin of said washer is clamped between said shoulder and said inner raceway member and the wheel is removable from the axle without removing the sealing device.

2,311,288

METHOD OF INCREASING THE PLASTICITY OF PORTLAND CEMENT MIXTURES

Robert Ben Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 2, 1940, Serial No. 332,963

8 Claims. (Cl. 106—93)

1. A method of increasing the plasticity of a Portland cement mix which comprises adding thereto a small amount of a crude residue obtained after the fermentation of carbohydrate material.

2,311,289

METHOD OF INCREASING THE PLASTICITY OF PORTLAND CEMENT MIXTURES

Robert Ben Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 21, 1940, Serial No. 336,360

2 Claims. (Cl. 106—92)

1. A method of increasing the plasticity of a Portland cement water mixture which comprises adding thereto from 0.001% to 0.01% of black liquor soap, said percentage being based on the amount of dry Portland cement contained in the wet mixture.

2,311,290

METHOD OF INCREASING THE PLASTICITY OF PORTLAND CEMENT MIXTURES

Robert Ben Booth, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 23, 1940, Serial No. 336,717

6 Claims. (Cl. 106—92)

1. A Portland cement composition comprising Portland cement having admixed therewith from 0.01% to 0.1% of crude carbohydrate residues.

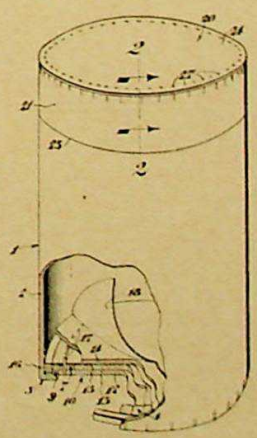
2,311,291

CONTAINER

Robert C. Carlson, Terrace Park, Ohio, assignor to John J. Emery, doing business as Emery Carpenter Container Company, Cincinnati, Ohio

Application January 2, 1940, Serial No. 312,061

8 Claims. (Cl. 229—67)



1. A paperboard container which is comprised of a cylindrical body portion made up of laminations of paper material having a marginal laminated portion at one of its ends turned inwardly to provide an integral flange, the said flange being made up of interconnecting pleats formed

by interconnected reverse folds, the said pleats symmetrically overlapping the material contiguous therewith and extending radially toward the body portion in spaced circumferential relationship, the said pleats being embedded in pressed relationship in recesses in said flange such such that the faces of said flange are flat and smooth.

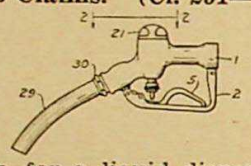
2,311,292

LIQUID DISPENSING NOZZLE

Frank B. Eilers and Forrest J. Graef, Fort Wayne, Ind., assignors to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana

Original application March 18, 1939, Serial No. 262,596. Divided and this application March 27, 1940, Serial No. 326,122

16 Claims. (Cl. 251—143)



1. A nozzle for a liquid dispenser comprising a body having a valve seat, a valve adapted to close upon said seat, said valve having a piston, a cylinder for said piston having a closed end, means for floatingly mounting said cylinder within the body to prevent binding between said cylinder and the piston, and self-centering means for sealing the closed end of said cylinder from the hydraulic pressure within the valve body.

2,311,293

PRODUCTION OF HIGH CONCENTRATED FIXING AND HARDENING SIRUPS

Garnet Philip Ham, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 30, 1940, Serial No. 367,955

6 Claims. (Cl. 95—88)

1. A method of preparing a high concentration stable fixing and hardening solution for silver halide photographic material containing a soluble thiosulfate in amounts of the order of magnitude of 1000 to 1200 grams per liter, sulfite, and alum hardener which comprises dissolving in water the desired amount of soluble thiosulfate and at least a considerable portion of the sulfite, separately dissolving in water the alum hardening ingredients under acid conditions, and mixing the two solutions together.

2,311,294

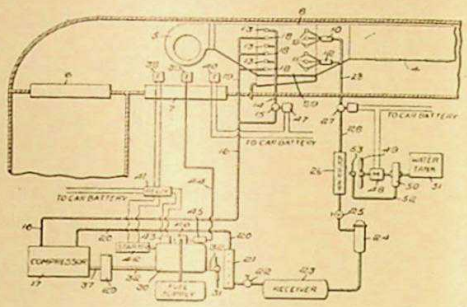
REFRIGERATION APPARATUS FOR AIR CONDITIONED PASSENGER VEHICLES

Milton E. Hanson, Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass.

Application November 13, 1941, Serial No. 418,910

2 Claims. (Cl. 62—6)

2. Refrigeration apparatus for air cooling comprising means including an evaporator forming an air cooler, means including a compressor for supplying refrigeration to said evaporator, an internal combustion engine for driving said compressor, means including means responsive to temperature changes in the space served for reducing the effective surface of said evaporator and for reducing the speed of said engine when the space temperature has fallen to a predetermined point, and for reducing the speed of said engine to idling speed when the space temperature has fallen to a predetermined point below said last mentioned predetermined point, and a



centrifugal clutch between said compressor and engine for disconnecting said compressor from said engine at idling speed.

2,311,295

PREPARATION OF BIGUANIDS

David W. Jayne, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application March 1, 1941, Serial No. 381,252

5 Claims. (Cl. 260—564)

1. A method of preparing a free biguanid which comprises reacting an alkali-forming metal hydroxide with an inorganic salt of a biguanid in the presence of a substantially anhydrous alcohol chosen from the group consisting of primary and secondary alcohols and filtering off the insoluble alkali metal salt.

2,311,296

PREPARATION OF GUANYL UREAS

David W. Jayne, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application March 1, 1941, Serial No. 381,253

5 Claims. (Cl. 260—553)

1. A method of preparing a free guanyl urea which comprises reacting an alkali-forming-metal hydroxide with an inorganic salt of a guanyl urea in the presence of a substantially anhydrous alcohol chosen from the group consisting of primary and secondary alcohols and filtering off the insoluble alkali metal salt.

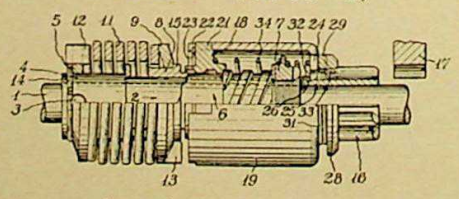
2,311,297

ENGINE STARTER GEARING

Daniel P. Kearney, Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application October 11, 1941, Serial No. 414,559

5 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a sleeve fixed thereon, a screw shaft yieldably connected to rotate with the sleeve, a nut on the screw shaft, a pinion slidably journalled on the power shaft for movement into and out of engagement with a member of an engine to be started, a stop for the nut, and means connecting the pinion for rotation and longitudinal movement with the nut including a barrel member fixed to the nut, a lost motion connection

between the barrel and pinion, and yielding means normally taking up said lost motion in the driving direction.

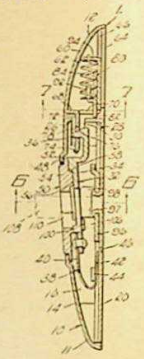
2,311,298

LUGGAGE LATCH

Milton L. Marsh, New Britain, Conn., assignor to The Eagle Lock Company, Terryville, Conn., a corporation of Connecticut

Application February 7, 1941, Serial No. 377,776

2 Claims. (Cl. 292—128)



1. A latch comprising a casing having front and rear walls, a bolt disposed within said casing, a U-shaped spring for supporting said bolt and normally urging it to latched position, said bolt being secured to one leg of said spring and the other leg of said spring being secured to the rear wall of the casing, an opening in the front wall of said casing, an actuating member loosely disposed in said opening, said actuating member having a flange disposed interior of the casing and of greater dimension than said opening for retaining said member within the casing and having a portion interior of said flange and seated within a recess provided in said bolt, whereby said member will be maintained in proper alignment with the opening in the casing upon depressing the member to actuate the bolt.

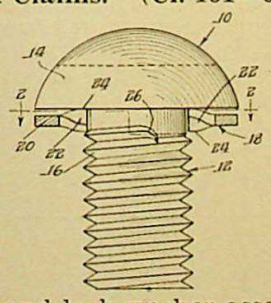
2,311,299

SCREW ELEMENT AND WASHER ASSEMBLY

Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Original application August 27, 1938, Serial No. 227,045. Divided and this application September 7, 1940, Serial No. 355,743

4 Claims. (Cl. 151—32)



4. A screw and lock washer assembly comprising a screw having a head and shank, a thread formed on the shank, a lock washer positioned on the shank between the thread and the screw head, and protuberance means in the vicinity of the terminating portion of the thread beneath said lock washer and providing an obstruction between said terminating portion and the next adjacent thread convolution so as to prevent tracking of the inner margin of the lock washer in the helical space presented between said convolutions.

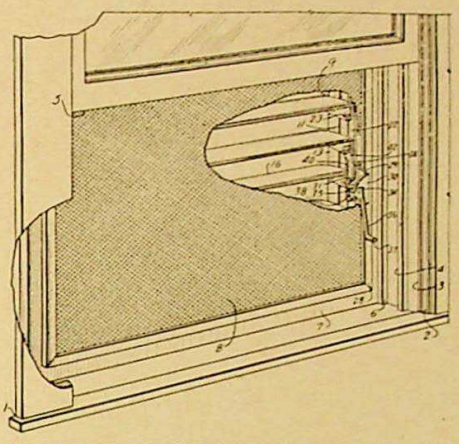
2,311,300

CONTROL MECHANISM FOR SHUTTERS

Ralph R. Dubour and Lemual G. Brown, Oklahoma City, Okla., assignors, by mesne assignments, to J. E. Bush, Dallas, Tex.

Application November 6, 1939, Serial No. 302,977

4 Claims. (Cl. 268—96)



1. A control mechanism for shutters having pivotal support on a frame having inner and outer face sides, said shutters being arranged to project from the outer face side, a link pivotally connecting the shutters and contained within the depth of the frame so as not to project from the inner face side of the frame, a bracket fixed on the inner face side of the frame, a shaft oscillatable in said bracket and having an end extending through the plane of said inner face side in the direction of the shutters, a laterally extending arm on the shaft between said inner face side and the shutters, a link connecting said lateral arm with the link pivotally connecting the shutters, and a crank connected with the opposite end of the shaft on the inner face side of the frame for oscillating the shaft to move the shutters to and from open position, said arm and link connection having upper and lower dead center positions relative to the axis of the shaft and the pivotal connection of said link in two positions of the shutters.

2,311,301

WATER DISPERSED ADHESIVE COMPOSITION AND ARTICLES COMPRISING THE SAME

Harvey J. Livermore, Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application August 3, 1940, Serial No. 351,114

4 Claims. (Cl. 260—745)

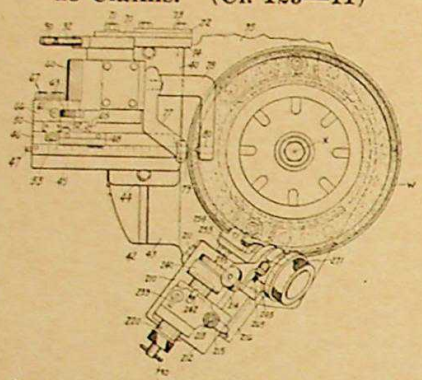
1. The method of making an adhesive composition which comprises working together reclaim rubber, a high melting point asphalt and wood rosin at a temperature above 200° F. in an internal mixer to form a smooth mass, then simultaneously cooling said mixture and introducing a limited amount of water thereinto by introducing the same largely in the form of ice while continuing the mixing, and then when the amount of water introduced into the mass is sufficient, but not greatly in excess of that amount which is sufficient, to permit inversion of the emulsion upon the addition of alkali hydroxide and, while maintaining the temperature of the mass in the range of 140° to 165° F., adding an alkali hydroxide thereto in a sufficient amount to effect inversion of the dispersion, whereupon water becomes the continuous phase and the mixture comprising rubber and asphalt is dispersed therein.

2,311,302

DRESSING MECHANISM

Ernest Wildhaber, Brighton, and Leonard O. Carlsen, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a corporation of New York

Application November 13, 1939, Serial No. 304,150
13 Claims. (Cl. 125—11)



1. Mechanism for dressing a side surface of a rotary wheel for grinding gears comprising a dressing tool, a support on which the dressing tool is oscillatably mounted, means for adjusting said support so that the axis of oscillation of the tool is inclined at other than right angles to a plane tangent to the side surface of the wheel at a mean point of contact of the dressing tool with said side surface of the wheel, and means for swinging the dressing tool about its axis in a circular arcuate path lying wholly in a plane perpendicular to said axis.

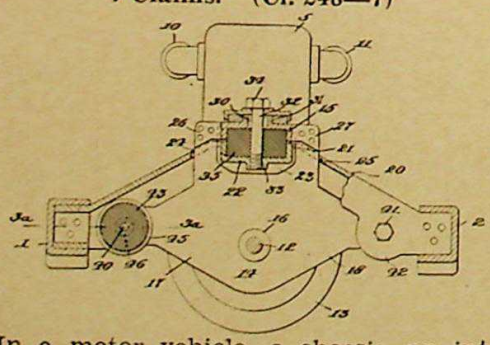
13. The method of dressing a convex surface on the side of a grinding wheel which comprises positioning an oscillatory dressing tool in engagement with the side of the wheel so that the axis about which the tool swings is inclined at an obtuse angle to a plane tangent to the said side of the wheel at a mean point of contact of the tool with said side surface, and swinging said tool on its axis to move the tool across the side of the wheel in a circular arcuate path which lies wholly in a plane perpendicular to said axis.

2,311,303

ENGINE MOUNTING AND CONTROL

Patrick J. Collins, Newark, N. J.

Application July 22, 1933, Serial No. 681,788
Renewed May 20, 1937
7 Claims. (Cl. 248—7)



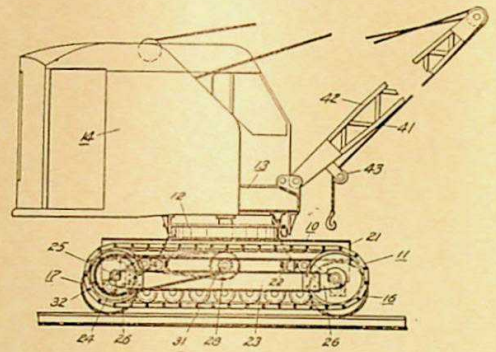
1. In a motor vehicle, a chassis, an internal combustion engine, means mounted on the chassis resiliently suspending the engine at its front and rear ends for oscillation about an axis above the centre of mass of the engine, whereby when the vehicle is moving in a curved path the engine will be moved by centrifugal force, and means for utilizing said movement of the engine to increase the downward pressure on the inner side of the chassis and decrease the pressure on its outer side.

2,311,304

COMBINATION CRAWLER AND RAIL VEHICLE

David W. Lehti and Luther H. Crow, Cedar Rapids, Iowa, assignors to Link-Belt Speeder Corporation, Chicago, Ill., a corporation of Illinois

Application July 5, 1940, Serial No. 344,092
8 Claims. (Cl. 105—215)



1. In a vehicle having large area rotatable treads for support of the vehicle on the ground, an axle and wheels on the axle for alternative support of the vehicle on hard surfaces, links pivotally engaged to the vehicle frame and the axle to permit lowering of the wheels to permit the treads to clear the ground, bolsters for the wheel axle hingedly connected to extensions of the vehicle frame, the hinges being so disposed on the vehicle that the arc of travel of the bolsters at at least one point intersects the arc of travel of the axle in raising and lowering the wheels so that the bolsters may be disposed in position between the lowered axle and the vehicle frame extensions to hold the axles and wheels in lowered position to thus support the vehicle on the wheels.

2,311,305

METHOD OF PRODUCING LUBRICATING MATERIAL

Harold W. Ritchey, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application May 6, 1940, Serial No. 333,605
19 Claims. (Cl. 252—39)

1. A method for producing a mineral lubricating oil for severe service internal combustion engines comprising heating a mineral oil to an incipient cracking temperature in the presence of phosphorus to cause phosphorus to enter the hydrogen molecule and oxidizing the phosphorized oil under controlled temperature conditions to yield phosphonic acids in said oil.

2,311,306

PHOSPHONIC ACIDS

Harold W. Ritchey, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application August 20, 1940, Serial No. 353,377
5 Claims. (Cl. 260—500)

1. A method for producing phosphonic acids comprising heating a mineral oil to incipient cracking in the presence of phosphorus to cause phosphorus to enter the hydrocarbon molecule, and air blowing the phosphorized hydrocarbon to yield phosphonic acids.

2,311,307

PRODUCTION OF METAL CARBONYLS

Rudolf Staeger, Ludwigshafen-on-the-Rhine, Peter Assmann, Berlin, and Kurt Ehrmann, Mannheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 26, 1940, Serial No. 315,780. In Germany October 13, 1938
4 Claims. (Cl. 23—203)

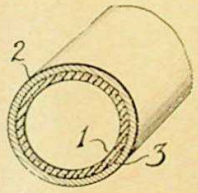
1. A proces of producing metal carbonyls which comprises reacting carbon monoxide upon a substantially sulfur-free product solidified from a melt which contains a carbonyl-forming metal that has been activated by the deposition of a subordinate amount of an oxide on the grain boundaries of said carbonyl-forming metal during the cooling of the melt.

2,311,308

CORROSIONPROOF LINER

Robert M. Thomas, Union, and William J. Sparks, Cranford, N. J., assignors to Jasco, Incorporated, a corporation of Louisiana

Application December 30, 1938, Serial No. 248,526
5 Claims. (Cl. 117—132)



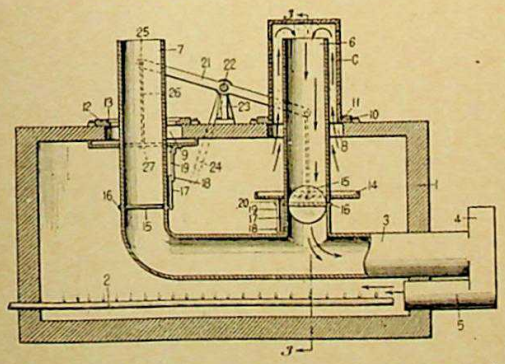
1. A structure comprising a metallic member and an integral covering layer thereon, the said layer comprising a solid, plastic, elastic, sulfurizable interpolymer of isobutylene and butadiene characterized by an elastic limit, a low iodine number and a high molecular weight and containing combined sulfur.

2,311,309

METHOD AND APPARATUS FOR TREATING FIBROUS CONTAINERS

Harold A. Bergstrom, Van Wert, Ohio, assignor to The Container Company, Van Wert, Ohio, a corporation of Ohio

Application October 22, 1940, Serial No. 362,301
12 Claims. (Cl. 34—21)



1. The method of treating a hollow container made of fiber board having a coating substance applied to one surface of the wall thereof which comprises subjecting the coated surface for a period of from one to two minutes to a temperatures of from 400° to 600° F. while simultaneously subjecting the other surface of the wall of the container to a relatively cool medium to prevent injury to the wall of the container.

2,311,310

MANUFACTURE OF TIN NAPHTHENATE

Donald E. Bowers, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application March 11, 1941, Serial No. 382,839
2 Claims. (Cl. 260—429)

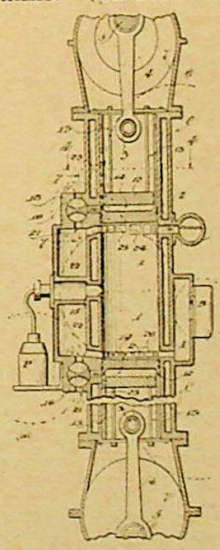
1. The method of making tin naphthenates which comprises: gradually adding to an aqueous solution of an alkali metal naphthenate about four-fifths of the calculated quantity of stannous chloride; maintaining the pH value of said solution during said addition substantially within the limits pH 7.5 to pH 8.2; then increasing the pH value of said solution to about pH 11.0 by addition thereto of an alkali metal hydroxide; adding the remainder of the calculated quantity of stannous chloride while maintaining the pH value of said solution at about 11.0, and collecting the precipitated tin naphthenate.

2,311,311

INTERNAL COMBUSTION ENGINE

James W. Lacy, Dallas, Tex., assignor to Heuschober Engineering Corporation, Fort Worth, Tex.

Application February 1, 1941, Serial No. 376,945
4 Claims. (Cl. 123—51)



1. In an internal combustion engine, the combination of one or more cylinders, a movable or reciprocating piston located in each end of said cylinder or cylinders, a by-pass chamber adjacent one end of each cylinder or cylinders, a fuel inlet injection and ignition means intermediate the by-pass chambers, a plurality of inlet and exhaust ports disposed in the walls of the cylinder or cylinders, a main exhaust port, a blower and an air chamber in communication with the cylinder or cylinders, a stationary member mounted in each cylinder or cylinders at each end thereof and forming a pumping chamber between the piston and said stationary member; a rotary valve at each end of said cylinder or cylinders for admitting a gaseous vapor or air mixture into said pumping chamber during the total stroke of the pistons; a crank shaft at each end of said cylinder or cylinders; each of said pistons including one or more ports for drawing the gaseous vapor or air mixture into said pumping chamber during the total stroke of the pistons; each of said pistons having a connecting rod for its adjacent crankshaft; a plurality of gears of the herringbone type providing a gear train, means for mounting said gears to connect said

crankshafts to maintain said crankshafts in the same relative positions with respect to each other and for actuating said rotary valves in timed relation to opening and closing thereof.

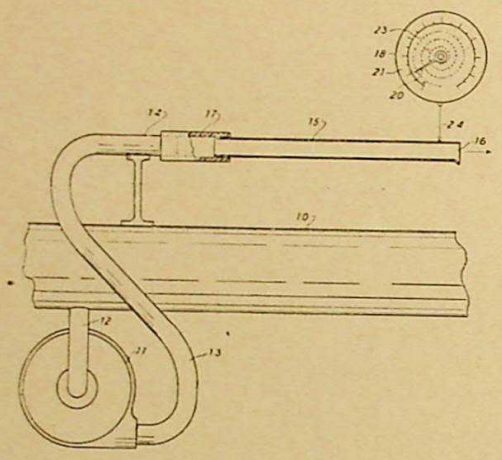
2,311,312

CONTINUOUS MUD WEIGHT INDICATOR

Hallan N. Marsh, Huntington Park, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application February 17, 1941, Serial No. 379,168

1 Claim. (Cl. 265—44)



A device for continuously weighing flowing liquids, comprising: a substantially horizontally disposed tube supported at one end in a substantially fixed position on bearings and free to move at the other end; a weight indicating element operatively connected with the free end of said tube; oppositely disposed tubular branches flexibly communicating with said tube substantially at the points of support of said tube on said bearings; and means for flowing said liquids through said branches and said tube toward the free end of said tube at a velocity sufficient to prevent the deposition of suspensoids on the inner wall of said tube.

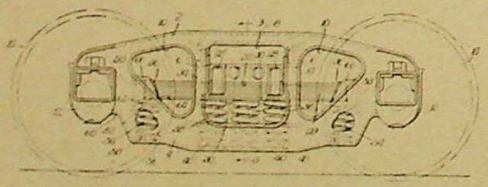
2,311,313

CAR TRUCK

Alfred H. Oelkers, New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application July 21, 1941, Serial No. 403,332

24 Claims. (Cl. 105—197.1)



8. In a railway car truck, a side frame comprising tension and compression members and spaced columns merging therewith to form a central bolster opening and spaced window openings, coil springs seated on said tension member below said openings, slidable abutment blocks supported in said tension member on the end coil springs, leaf springs superposed on said intermediate coil springs with their ends supported on said blocks, and a bolster having an end extending into said bolster opening in guiding engagement with said columns, said bolster having jaw means embracing said plate springs at spaced points, said jaw means having oppositely tapered areas bearing against said plate springs to permit increased bearing area thereagainst as the superposed load is increased.

2,311,314

PURIFICATION OF WATER

Joseph S. Reichert and Arthur A. Elston, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 20, 1940, Serial No. 357,617

11 Claims. (Cl. 210—23)

1. The method of purifying water in order to free it from metallic impurities dissolved therein which comprises adding monopersulfuric acid to said water in amount sufficient to oxidize metallic impurities present therein as metallic compounds of lower valence to metallic compounds of higher valence, adding an alkaline agent to the resulting solution in order to adjust the pH to a value at which said metallic impurities are precipitated in the form of insoluble metallic compounds, and removing said precipitated metallic impurities.

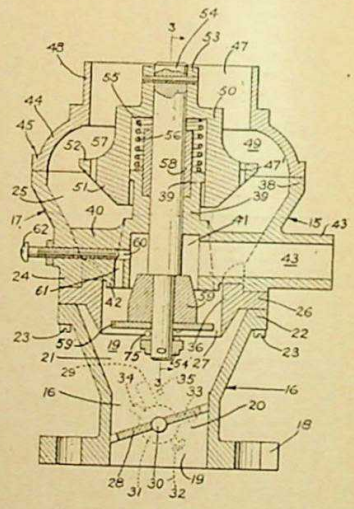
2,311,315

GASEOUS FUEL MIXER FOR INTERNAL COMBUSTION ENGINES

Harold W. Smith, Los Angeles, Calif., assignor to American Liquid Gas Corporation, Los Angeles, Calif., a corporation of California

Application September 30, 1940, Serial No. 359,063

5 Claims. (Cl. 48—180)



1. A gaseous fuel mixer adapted to be applied to an internal combustion engine, comprising a housing, a fluid passageway centrally thereof, an air valve seat at the upper end of said passageway, a fuel valve seat at a point intermediate the ends of said passageway, an air valve adapted to move against the air valve seat, a fuel valve adapted to move upwardly toward a closed position with relation to the fuel valve seat, said valves moving in unison, yieldable means urging said valves to their seated positions, a Venturi throat structure disposed beneath said fluid valve seat and into the restricted area of which the fluid valve may move, means supplying fuel to said fuel valve and whereby the fuel and air will be mixed together and will pass downwardly through said Venturi throat when the fuel and air valves are opened, and a throttle valve disposed in the air passageway between said Venturi throat and an internal combustion engine upon which the device is adapted to be mounted.

2,311,316

PROCESS FOR PREPARING VEGETABLE JUICES

John G. Souther, Alameda, Calif., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif., a corporation of Nevada

No Drawing. Application August 2, 1940, Serial No. 350,093

22 Claims. (Cl. 99—155)

1. The process of preparing heat-sterilized, packaged, normally non-acid vegetable juice, comprising packaging and heat-sterilizing in the conventional manner, characterized by the preliminary steps of heating to substantially two hundred twelve degrees Fahrenheit (212° F.) and thereafter homogenizing, before subjection to said conventional packaging and heat-sterilizing steps.

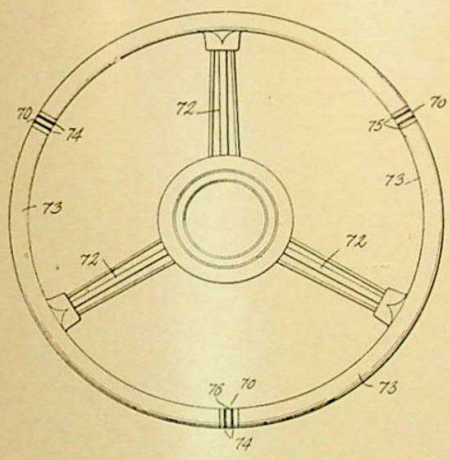
2,311,317

STEERING WHEEL OR OTHER ARTICLES

John B. Tegarty, Buffalo, N. Y., assignor to Sterling Injection Molding, Inc., Buffalo, N. Y.

Application June 1, 1939, Serial No. 276,855

1 Claim. (Cl. 74—552)



A steering wheel including a rim having an annular metallic core and spokes secured at their outer ends to said core, said core having a covering formed mainly of sections of molded plastic material separated from each other by spacers, the outer diameter and contour of said sections and spacers being similar, said spacers being located on said core between said spokes and having their ends in telescopic arrangement with said sections but detached therefrom to permit expansion and contraction of said plastic material, said material covering the connections of said spokes with said core.

2,311,318

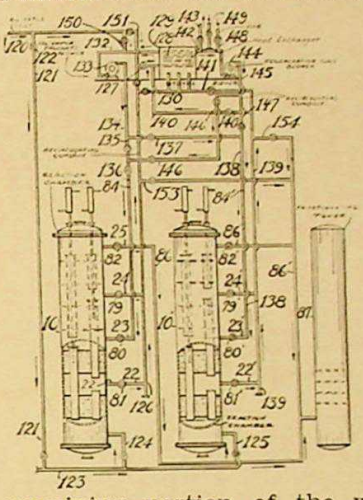
PROCESS FOR CRACKING OILS

Charles W. Tyson and Eger V. Murphree, Summit, and Herbert G. M. Fischer, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application October 15, 1938, Serial No. 235,232

5 Claims. (Cl. 196—52)

1. A method of catalytic cracking of hydrocarbon oil to produce lower boiling hydrocarbons which comprises heating the hydrocarbon oil to vaporizing and reaction temperature, introducing the resulting vapors into a reaction vessel provided with a plurality of horizontally extending catalyst beds arranged one above the other in spaced relation and including a top bed, a bottom bed and intermediate beds, passing the introduced vapors through certain of said catalyst beds in series, withdrawing at least a portion of the vapors undergoing cracking after they have passed through at least one catalyst bed and passing at least a portion thereof through one of said intermediate catalyst beds and passing the remaining portion of the withdrawn vapors first through a different intermediate bed and then through the last bed of catalyst and then out of said reaction vessel.



2,311,319

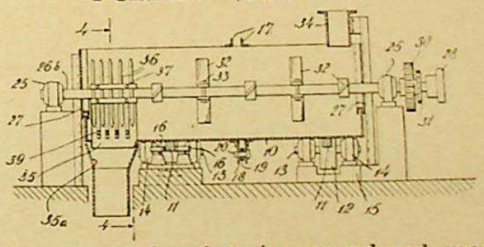
APPARATUS FOR FORMING POWDERED MATERIAL INTO GRAINS

Mikael Vogel-Jorgensen, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

Application May 9, 1941, Serial No. 392,654

In Denmark June 10, 1940

4 Claims. (Cl. 259—78)



1. Apparatus for forming powdered material into grains and similar particles which comprises a vessel having an inner wall of arcuate cross-section, a mounting for the vessel on which it may be oscillated on a horizontal axis, means for oscillating the vessel on its mounting, a pair of shafts extending through the vessel and beyond the ends thereof, said shafts lying parallel to but offset from said axis of oscillation, stationary bearings for the shafts beyond the ends of the vessel and independent thereof, the ends of the vessel being constructed and arranged to permit oscillation of the vessel about the shafts, stirring blades on the shafts within the vessel, and means for rotating the shafts.

2,311,320

FILTER

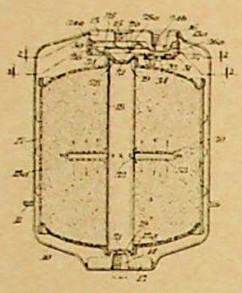
Lewis W. Williams, Short Hills, N. J., assignor to Purolator Products, Inc., a corporation of Delaware

Application November 28, 1939, Serial No. 306,441

14 Claims. (Cl. 210—131)

3. A filter comprising a casing provided at one end with a port and at the opposite ends respectively with first and second passageways of which one is closed when the filter is installed in an internal combustion engine lubri-

cation system, a first plate attached to said casing in spaced relation to said port to provide communication between said port and the interior of said casing and having a passageway communicating with said first casing passageway, said two last-named plate and casing passageways terminating one in a recess and the other in a projection fitting into said recess, a second plate spaced from said first plate and having an apertured offset, a container within said casing having an apertured offset portion fitting said second plate offset and also having



a passageway communicating with the second casing passageway, said two last-named container and casing passageways terminting one in a recess and the other in a projection fitting into said recess, a perpendicular flange on one of said plates contacting said other plate to form means for directing flow between said first casing passageway and said container while preventing flow between said first casing passageway and said port. filtering material within said container, and means for establishing communication between the interior of said container and the interior of said casing.

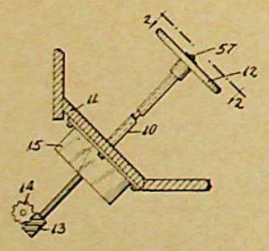
2,311,321

STEERING DEVICE AID FOR HEAVY MOTOR TRUCKS AND THE LIKE

Herman Zigan, New York, N. Y.

Application January 20, 1942, Serial No. 427,426

7 Claims. (Cl. 180—79.1)



1. A steering device aid for heavy motor trucks and the like, comprising the usual steering column which is provided with a steering wheel, a right hand gang switch and a left hand gang switch mounted on said steering wheel, a steering motor controlled with a reversing switch having a neutral position, a transmission connecting said motor and steering column and including a clutch, a spring for urging said clutch into an open position, solenoid means for closing said clutch operated by one section of each of said gang switches, a solenoid means for operating said reversing switch to cause said steering motor to rotate in one direction when one of said gang switches is closed and to rotate said motor in the other direction when the other of said gang switches is closed and to move said reversing switch to a neutral position to cutout said motor when both of said gang switches are closed, and solenoid means for urging said clutch into an open position when both of said switches are closed.

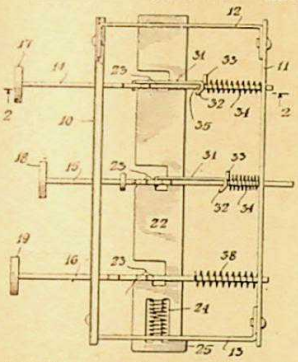
2,311,322

PUSH-BUTTON SWITCH ASSEMBLY

Henry M. Zimmerman and George O. Puerner, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application May 6, 1941, Serial No. 392,046

4 Claims. (Cl. 74—483)



1. A push button switch wherein a push rod is slidably supported in a frame and a spring urges said rod toward one end of its path of confined travel therein and a latch bar having a latching abutment thereon is also mounted in said frame and is movable to bring said abutment into and out of latching position, characterized by the fact that there is combined with said push rod a latching arm pivoted thereon and biased by said spring toward said latching abutment on said latch bar to latch therewith when said push rod reaches a predetermined position in its path of travel.

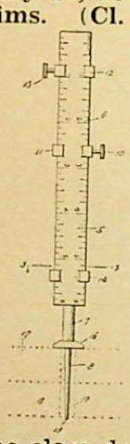
2,311,323

RIVET GAUGE

Rexford H. Addis, Dearborn, Mich.

Application January 17, 1942, Serial No. 427,185

4 Claims. (Cl. 33—143)



1. A gauge of the class described comprising a plate having graduations on one surface thereof, a guide slidably carried by the plate means for securing the guide against movement relative to the plate, a gauge rod slidably carried by the guide, and means for securing the gauge rod in adjusted position relative to the guide, said securing means for the guide and the gauge rod having indicators carried thereby and associated with the graduations of the plate to measure the distance of adjustment of the gauge rod.

2,311,324

WINDOW VENTILATOR

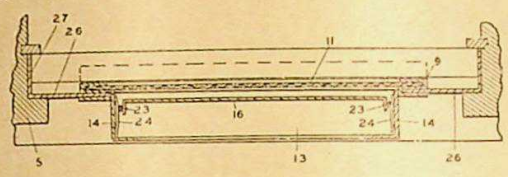
Charles S. Amsler, San Francisco, Calif.

Application July 12, 1941, Serial No. 402,093

3 Claims. (Cl. 160—105)

2. In a device of the character described, a

rectangular screened frame adapted to be inserted in a window opening, said frame having channels formed upon its parallel vertical end margins, extension wings vertically slidable in



said channels and filling the space between said frame and the side margins of said window opening, and a cap-rail overlying said frame and said extensions and serving to hold said frame and said extensions in alignment.

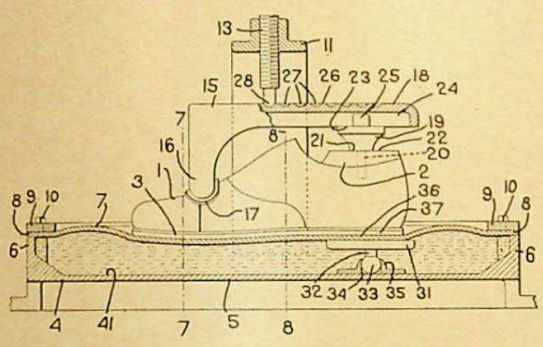
2,311,325

SHOE PRESS

William S. Anderson, Philadelphia, Pa., assignor to Shoe Press Corporation, Philadelphia, Pa., a corporation of Delaware

Application July 24, 1941, Serial No. 403,774

3 Claims. (Cl. 12—33)



1. A sole press for use in cementing soles to shoes comprising a body member presenting a rigid bottom and rigid side walls, a flexible sole-engaging diaphragm having its marginal portion secured to said side walls, thereby forming a fluid-containing chamber which is filled with liquid, means for applying pressure to an assembled shoe and outer sole which is supported on the diaphragm with the sole in engagement therewith, a flat-faced heel plate situated within the fluid-containing chamber and spaced from the rigid side walls thereof, the flat face of said heel plate engaging the under face of that portion only of the diaphragm on which the heel of the shoe rests, and means for retaining said heel plate in its operative position while permitting it to have a slight universal rocking movement, whereby said heel plate maintains the heel-engaging portion of the diaphragm flat when pressure is applied to the shoe but is free to rock sufficiently to conform to any variation in the angular position of the plane of the under face of said heel.

2,311,326

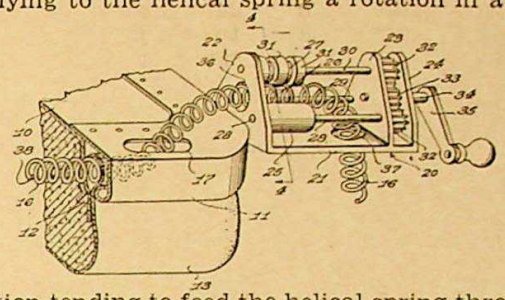
FASTENING MEANS

Dimitri Birkin, Philadelphia, Pa.

Application November 25, 1940, Serial No. 367,102

3 Claims. (Cl. 155—180)

1. The method of joining a flexible sheet to a substantially non-flexible member which comprises providing the non-flexible member with a channel having a slot opening, providing the flexible sheet with a hem, placing the hem for a small portion of its length through the slot into the channel, and progressively threading a helical spring into the hem within the channel by applying to the helical spring a rotation in a di-



rection tending to feed the helical spring through the hem.

2,311,327

POLYMERIZATION OF DIALLYL ESTERS AND PRODUCTS THEREOF

Theodore F. Bradley, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Original application April 1, 1937, Serial No. 134,387. Divided and this application September 26, 1939, Serial No. 296,617

5 Claims. (Cl. 260—78)

1. A composition of matter consisting of insoluble and infusible polymerized diallyl ester of a polycarboxylic acid selected from the group consisting of fumaric acid, sebacic acid, succinic acid, adipic acid and phthalic acid.

4. A process of preparing a resinous polymer which comprises heating for about 15–30 minutes at a temperature of about 115°–125° C. until there is produced a substantially insoluble and infusible solid, a composition including a polymerization catalyst and having as its sole polymerizable component an ester selected from the group consisting of diallyl fumarate, diallyl sebacate, diallyl succinate, diallyl adipate and diallyl phthalate.

2,311,328

REFINING LIGHT HYDROCARBON DISTILLATES

Paul V. Brower, Edwardsville, Ill., and Lowrey Love, Jackson Heights, N. Y., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application November 6, 1941, Serial No. 418,048

8 Claims. (Cl. 196—33)

1. In a sweetening process wherein sour hydrocarbon distillate is treated with an aqueous alkaline plumbite solution and sulfur to produce a sweet distillate and a spent solution which is regenerated by oxidation, the improvement comprising maintaining in said plumbite solution an alkyl phenol concentration of 8–15 gr./liter.

2,311,329

SHRUNK CONNECTION, PARTICULARLY FOR TUBULAR MEMBERS

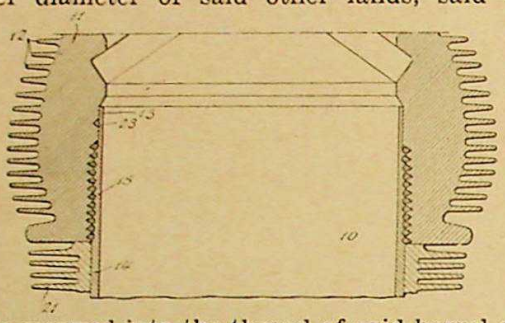
Harold Caminez, Kew Gardens, N. Y., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York

Application November 24, 1939, Serial No. 305,858

6 Claims. (Cl. 123—193)

1. A shrunk connection of a steel barrel with an aluminum head of a cylinder of an internal combustion engine, comprising a substantially V-shaped thread groove with rounded apex interiorly of said cylinder head, a shallow substantially segment-shaped thread groove on said barrel, the upper end portion of said segment-shaped groove being deeper than the main portion thereof, a coil insert of a hard but ductile

bronze wire, the cross-section of said coil wire having an outer portion substantially fitting snugly the sides of said V-shaped thread groove and an inner portion of a width slightly smaller than that of the segment-shaped groove, lands with rounded edges between the thread convolutions of said head, other lands with rounded edges between the thread convolutions of said barrel, the inner diameter of the lands of the thread of the head being originally smaller than the outer diameter of said other lands, said coil



being screwed into the thread of said barrel and bonded with its trailing end portion to said deeper thread groove portion and being shrunk thereon, whereby said head while being expanded through heat being screwed on said coil, said lands of said head and said barrel are firmly pressed against each other, and the cross-section of the wire of the coil being originally so dimensioned as to be deformed to substantially fill the spaces between said barrel and said head after contraction of the latter owing to its shrinking.

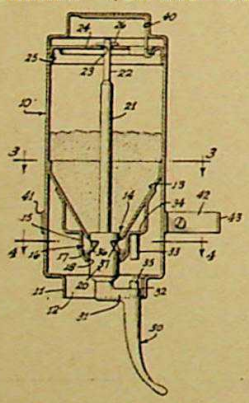
2,311,330

SOAP DISPENSER

William A. Dudley, Chicago, Ill., assignor to Pacific Coast Borax Company, a corporation of Nevada

Application November 30, 1940, Serial No. 368,019

3 Claims. (Cl. 221—62)



1. A dispenser for powdered soap and the like embodying: a container having a bottom with a valve opening therein; a shell extending downwardly from the bottom forming a valve chamber having a discharge outlet; a valve movable in said valve chamber; a stem on said valve extending upwardly therefrom; means for slidably supporting said stem; said valve having notches therein so placed that when the valve is in its upper position said notches are above the valve opening in the bottom and when in its lower position within the valve chamber; abutment means on said container; a handle on said valve extending below the container; means on said handle cooperating with said abutment to limit the upward movement of said valve; and means for limiting the downward movement of said valve.

2,311,331

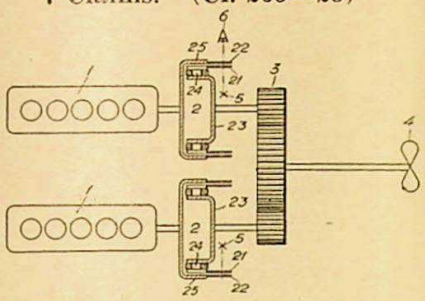
MEANS FOR MEASURING THE TORQUE OF COMBUSTION ENGINES

Nils Ericson, Stockholm, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden

Application December 10, 1937, Serial No. 179,083

In Sweden March 1, 1937

7 Claims. (Cl. 265—25)



1. Means for indicating the torque transmitted from a driving to a driven rotating element, comprising the combination of an electromagnetic slip coupling member connected to said driving element, another electromagnetic slip coupling member connected to said driven element, magnetic poles carried by one of said members, a conductor carried by the other member and in which currents are induced by said poles, and means for indicating the speed difference between the coupling members.

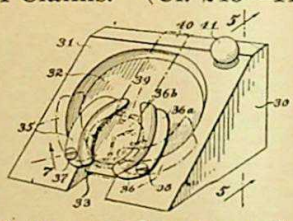
2,311,332

WATCH STAND

Richard P. Fleischner, Scarsdale, N. Y.

Application October 1, 1941, Serial No. 413,127

4 Claims. (Cl. 248—117)



1. A stand for watches comprising a support having an inclined surface on which the back of the watch may rest and means pivotally mounted on said support adapted to engage the opposite sides of a watch positioned on said inclined surface, said means limiting lateral and downward movement of the watch, and having portions on opposite sides of their points of pivoting, so disposed that when the watch moves against the portions on one side of said pivot, the portions on the opposite side of said pivot will be pressed against the watch.

2,311,333

CONTAINER

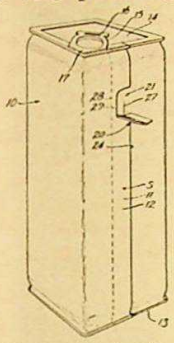
Joseph S. French, Glendale, Calif.

Application May 13, 1940, Serial No. 334,820

12 Claims. (Cl. 229—17)

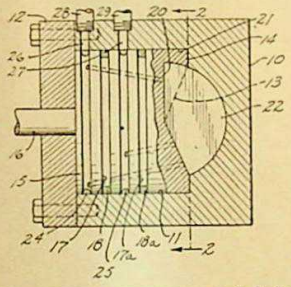
1. A container formed of fibrous material or the like comprising a container body having a seam in its side including an inner lap and an outer lap, means adhesively securing the laps together, a cut in the outer lap along which the lap may be parted, the cut extending laterally from an edge of the outer lap and then downwardly to define a pouring flap that may be projected from the side of the body, a line of scoring in the outer lap extending laterally from said edge to the first named line, the line of scoring

having two downwardly convergent portions tending to cause the pouring flap to assume a



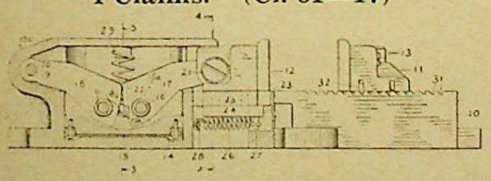
channel shape when projected, and a longitudinal line of scoring in the pouring flap facilitating such shaping of the pouring flap.

2,311,334
ROTARY PUMP
Donald A. Fulton, Los Angeles, Calif.
Application September 18, 1939, Serial No. 295,423
13 Claims. (Cl. 103—124)



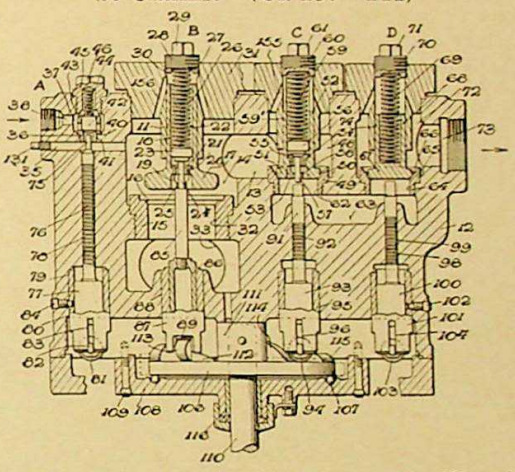
1. A rotary compressor which includes: a housing; a member in said housing having a concave conical end surface whose axis is obliquely positioned with respect to the axis of said member and whose base is a plane circle obliquely positioned with respect to the axis of said member; a cone within said housing and axially aligned with said first member; a movable plate in the form of a minor circular sector making a wiping contact with said end surface and extending diametrically across said cone to form with said cone, said end surfaces, and the walls of said housing, a chamber of variable volume; and means to admit and discharge fluid into said chamber of variable volume, said conical surfaces being rotatable with respect to each other.

2,311,335
VISE
Clarence G. Garrigus, Haddam, and Cedric B. Cross, Moodus, Conn., assignors to Production Devices Incorporated, East Hartford, Conn., a Corporation of Connecticut
Application October 26, 1940, Serial No. 362,957
4 Claims. (Cl. 81—17)



1. In a device of the character described, a stationary jaw, a movable jaw and means for moving said movable jaw toward and away from said stationary jaw comprising a reciprocally movable piston, a member supported from a fixed pivot and having a convex cam surface, a second member supported from a pivot movable with and carried by said movable jaw and having a convex cam surface engageable with said first-named cam surface, means for coupling both said members to said reciprocally movable piston to rotate them about their respective pivots upon reciprocation of said piston, and means for maintaining said cam surfaces in rolling contact during said reciprocation of said piston whereby the contact between said surfaces during operation always remains substantially in a single horizontal plane below the level of said pivots.

2,311,336
HYDRAULIC VALVE MECHANISM
Henry Z. Gora, Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y., a corporation of New Jersey
Application July 27, 1940, Serial No. 348,051
20 Claims. (Cl. 137—144)

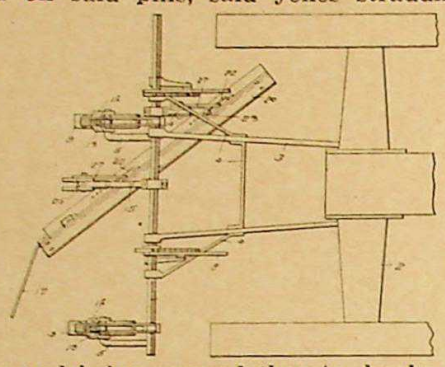


1. In a valve mechanism for controlling high and low pressure fluid in succession, a body having a high pressure valve means with an inlet adapted to be connected to a source of high pressure fluid and an outlet communicating with a chamber in said body, said chamber being adapted to communicate with a means to or from which said fluid may flow, a low pressure exhaust valve means having its inlet in communication with said chamber and its outlet adapted to communicate with exhaust means, a common valve means having one of its passages communicating with said chamber and another passage adapted to communicate with a source of low pressure fluid whereby said common valve means may supply low pressure fluid to said chamber or exhaust high pressure fluid from said chamber to said low pressure supply means, a common actuator for all of said valve means including a single rotatable member provided with cam projections, one corresponding to each valve means, and means in the path of movement of each cam projection for operating its corresponding valve means, the cam projections of the actuator being so arranged that only one of either the high pressure, the exhaust or the common valve means may be opened at any time.

2,311,337
TERRACING MACHINE
Oscar Gross, Peggy, Tex.
Application August 7, 1942, Serial No. 454,004
1 Claim. (Cl. 37—178)

A terracing machine of the character described comprising a wheel supported bar, means for connecting said bar to a source of power, beams mounted on the bar, a mold board, a blade mounted on said mold board, loops mounted on

the back of the mold board, a bar mounted on the back of the mold board, pins pivotally mounted on the second-named bar, yokes journaled on said pins, said yokes straddling the



beams and being secured thereto, hooks on the upper portions of the yokes engaged in the loops, and a forwardly inclined guard on the upper portion of the mold board.

2,311,338

WAX COMPOSITION

John B. Holtzclaw, Roselle, and John E. Clemens, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 22, 1939, Serial No. 263,410

10 Claims. (Cl. 106—271)

1. Process of manufacturing anhydrous highly dispersed colloidal wax compositions of a crystalline high molecular weight ester wax of an aliphatic high molecular weight monohydric alcohol and an aliphatic high molecular weight acid comprising melting said wax, adding thereto a heated highly paraffinic petroleum distillate boiling between about 300° F. and 600° F., in which the said wax is completely miscible at temperatures above the melting point of the wax, but in which the wax at atmospheric temperatures has relatively small miscibility, to prepare a mixture containing from 1% to 5% of the wax, slowly cooling the same to atmospheric temperatures and passing the same through a colloid mill.

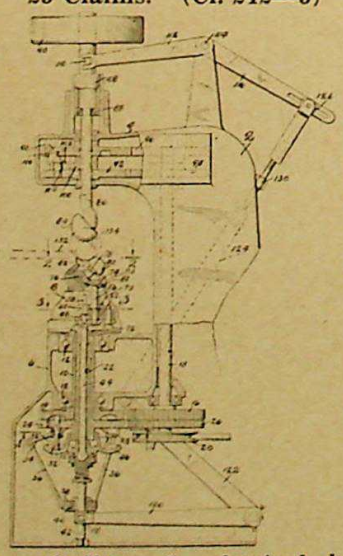
2,311,339

METHOD OF AND APPARATUS FOR WINDING SPHERES

Hiram N. Huse, Providence, R. I.

Application February 11, 1942, Serial No. 430,381

25 Claims. (Cl. 242—3)



1. In the winding of spherical bodies, the method which comprises effecting rotation of the sphere on its own axis during the winding operation, the speed of rotation of the sphere gradually increasing as the diameter of the sphere increases.

3. In a machine for winding spherical bodies, the combination of opposed winding heads, one of which is equipped with a rotatable driving member engaging the sphere being wound to present different parts of the surface of the sphere to the point of winding, and means for varying the speed of said driving member in fixed ratio to the constantly increasing diameter of the sphere.

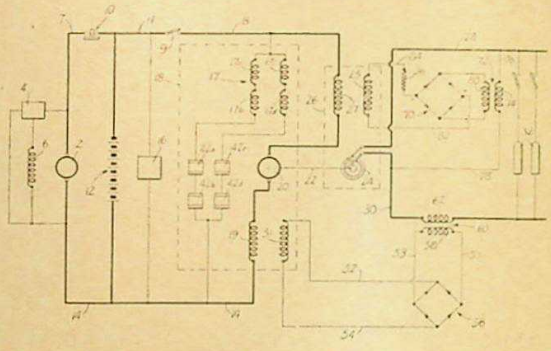
2,311,340

ELECTRICAL SYSTEM

John J. Kennedy, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware

Application December 6, 1940, Serial No. 368,801

3 Claims. (Cl. 171—123)



1. In a railway car electrical system for supplying alternating current of substantially constant frequency and voltage wherein power is available from a battery-generator system, the combination of; a direct current motor having an armature and a set of field windings including a main motor winding and a starting winding; means connecting said starting winding in series with said armature; means connecting said main motor winding to receive current from the battery-generator system with control means to regulate the current to maintain substantially constant motor speed throughout a permissible variation in the supply voltage; an alternator having an armature, a main alternator field winding and an auxiliary alternator field winding; a rectifier unit; means connecting said auxiliary alternator field winding in series with the armature of said motor to thereby provide a heavy magnetic field for the alternator during the starting period; means connecting said main alternator field winding to the output terminals of said rectifier unit and connecting the input terminals of said rectifier unit to receive power from the output of said alternator so that said main alternator field winding produced magnetic flux which varies with the output voltage of the alternator.

2,311,341

PLASTICIZING AMINO-FORMALDEHYDE RESINS

William B. Johnston, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 19, 1940, Serial No. 346,325

11 Claims. (Cl. 260—33)

1. A resinous amino-aldehyde condensation product plasticized with a high molecular weight

alcohol, obtained by polymerizing at elevated temperature a substance selected from the group consisting of polyene fatty acids and their esters and hydrogenating the polymer to the corresponding alcohol.

2,311,342

SULPHUR REMOVAL FROM HYDROCARBONS

William J. Kerns, Rahway, and Clayton M. Beamer, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application March 15, 1941, Serial No. 383,646
11 Claims. (Cl. 260—553)

1. Process for the removal of carbonyl sulphide from hydrocarbon feed mixtures containing the same, which comprises reacting the carbonyl sulphide with monoethanolamine.

2,311,343

MILK PRODUCT AND THE MANUFACTURE THEREOF AND COMPOSITION THEREFOR

Victor Charles Emile Le Gloahec, Rockland, Maine, assignor to Algin Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application September 10, 1938, Serial No. 229,295
8 Claims. (Cl. 99—25)

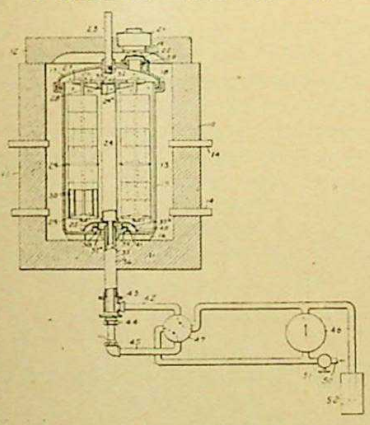
1. In the preparation of a milk product the step comprising treating dissolved calcium salt of the milk with an alkali-metal caseinate in an amount that is substantially the molar equivalent of said dissolved calcium salt of the milk to convert the calcium of said dissolved calcium salt to a colloidally-dispersed and non-ionizing caseinate compound of calcium, caid caseinate compound of calcium being maintained in colloidal solution in the product in the presence of alginous material as a stabilizing agent.

2,311,344

MEANS FOR BATHING WORKPIECES IN A CONTROLLED ATMOSPHERE

Adolph W. Machlet, Elizabeth, N. J.

Application March 4, 1941, Serial No. 381,638
8 Claims. (Cl. 266—5)



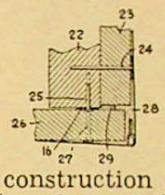
1. A container for maintaining workpieces bathed in a preheated atmosphere kept in a state of motion, comprising a box section and a removable cover section, a tube in open communication with the lower region of the box section, and a second tube in open communication with the upper region of the box section, said tubes having portions in telescoping relation with one another; baffle means in the said box section placed in overlying spaced relation with the open end of said first named tube for heating gases introduced through the tube before said gases contact the workpieces; means for heating said container and indirectly the baffle means therein; and means removed from said box section for withdrawing the atmosphere from within the box through the second mentioned tube and for returning same to the container through the first named tube and the heated baffle means associated therewith.

2,311,345

METAL CORNER BEAD FOR DRY WALL CONSTRUCTION

Wiley B. Mitchell, Wichita, Kans., assignor of thirty per cent to F. N. Masemore, Wichita, Kans.

Application October 3, 1941, Serial No. 413,556
2 Claims. (Cl. 72—16)



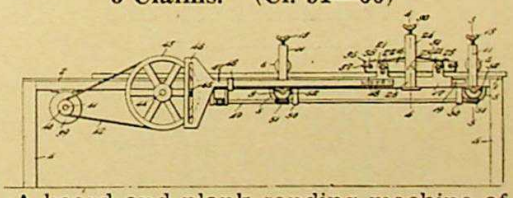
1. A dry wall construction comprising a studding, a plaster board extending at right angles thereto, and a corner bead composed of a double metal strip having a bead portion and a pair of flanges formed integral therewith and extending at right angles to each other, one flange being secured direct at the studding and the other being secured to the studding through said plaster board, one of said flanges being interposed between the plaster board and the studding; said flanges having cement receiving openings therein, and cement filling said openings, the end of said plaster board terminating short of the corresponding flange, leaving a space therebetween, and a layer of cement extending through said openings into said space and covering the exposed portions of said corner bead.

2,311,346

SANDPAPERING MACHINE

Adolph T. Munn, Pageland, S. C.

Application March 26, 1942, Serial No. 436,348
3 Claims. (Cl. 51—66)



1. A board and plank sanding machine of the class described, comprising a bed upon which the work is adapted to be placed for sanding purposes, means on said bed for frictionally engaging and feeding and guiding the work, a carriage structure mounted for reciprocation on said bed, said carriage comprising parallel slidably mounted rails with upstanding notched lugs, a sandpaper block cradled in said lugs, a yoke carried by said rails and spanning said block, and spring tensioning means on the yoke cooperating with the block, together with operating means for said carriage.

2,311,347

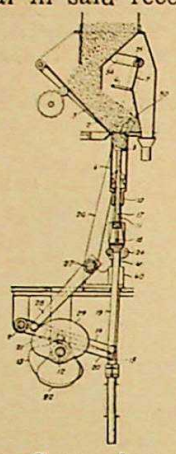
DEVICE FOR DISTRIBUTING PORTIONS OF PULVEROUS, GRANULAR, OR OTHER MATERIAL

Gustaf Örström, Alsten, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a joint-stock company of Sweden

Application April 7, 1941, Serial No. 387,370
In Germany July 10, 1940
2 Claims. (Cl. 221—118)

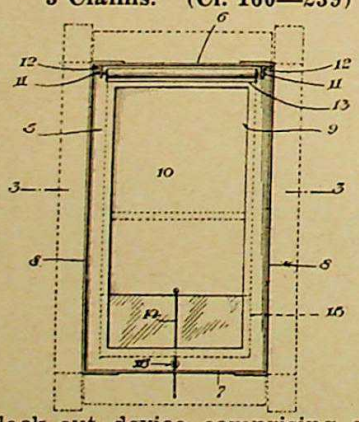
2. In a device for distributing portions of pul-

verous, granular, fibrous or other material, for instance tobacco, a receptacle for the material to be distributed, a measuring chamber having an open top end and being movable up and down in said receptacle, a piston movable up and down within said chamber, a receiver positioned laterally of said chamber, a scraping-off member, and means to first elevate said chamber to project above the material in said receptacle, then to



move said scraping-off member across said top end in a direction from said receiver to remove material projecting out of said top end, then to elevate said piston within said chamber to expel from said chamber a portion of material separated from the contents of said receptacle by the measuring chamber when being elevated, and thereafter to reverse said scraping-off member to move again across the top end of said chamber to transfer material therefrom to said receiver.

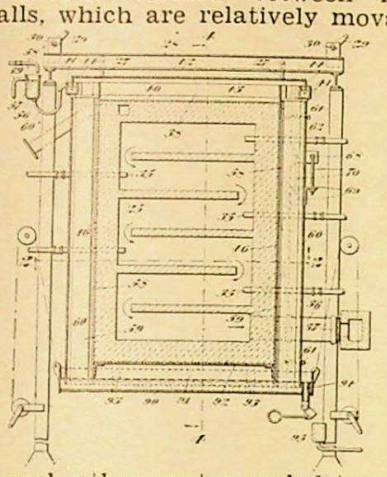
2,311,348
BLACK-OUT DEVICE
Raphael C. Peters, New York, and Renato Santone, Larchmont, N. Y.
Application January 7, 1942, Serial No. 425,876
3 Claims. (Cl. 160—239)



1. A black-out device comprising a frame of light-weight opaque material having light-proof means for securing it within the opening of a window frame, a movable opaque member carried by said black-out frame and operable to a position to prevent passage of light through the window, and means to facilitate operating said movable member.

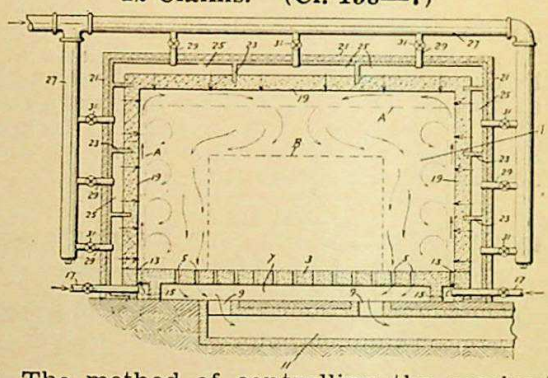
2,311,349
COKE OVEN WITH MOVABLE WALLS
Franz Puening, New York, N. Y.
Application April 19, 1941, Serial No. 389,302
26 Claims. (Cl. 202—105)

1. In a coking oven with individually sealed coking chambers formed between internally heated walls, which are relatively movable with



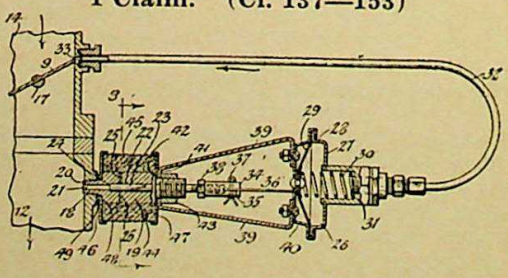
respect to each other, water sealed top and bottom sealing means, adapted to accommodate the motion of the walls.

2,311,350
METHOD AND APPARATUS FOR CONTROLLING COMBUSTION
Edward Adams Richardson, Bethlehem, Pa.
Application December 26, 1939, Serial No. 311,063
12 Claims. (Cl. 158—7)



1. The method of controlling the combustion of a gas-like fuel with air which comprises flowing one of the reactants as a thin stream having definite continuity in the direction of flow, and flowing the second reactant into said stream substantially at right angles to its course and at a velocity too low to interfere substantially with the continued coursewise movement of said stream, whereby combustion takes place substantially only in a zone defined by the boundaries of said thin stream.

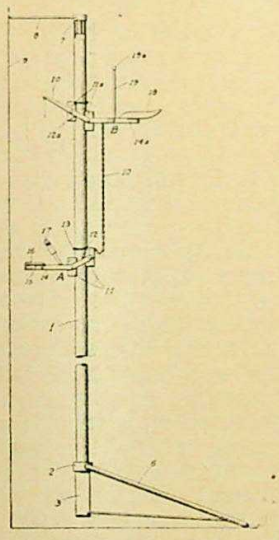
2,311,351
AUXILIARY AIR SUPPLIER FOR GAS ENGINES
William Schmelz, Buffalo, N. Y.
Application May 20, 1941, Serial No. 394,336
1 Claim. (Cl. 137—153)



An auxiliary air supplier comprising a valve

body having an air outlet in one of its ends, a cylindrical valve seat arranged in the opposite end of the body and connecting with said outlet, and an air inlet arranged in the side of said body and leading from said valve seat to the exterior of the body and extending at an angle to the axis of said valve seat, a cylindrical valve member slidable lengthwise in said valve seat and adapted to cover and uncover more or less of said angular air inlet, and means for operating said valve member which include a suction chamber having a movable wall, and means for transmitting motion from said wall to said valve member including an adjusting sleeve having a screw connection with said valve member and provided with a longitudinal slot, a shifting rod connected at one end with said wall and arranged at its opposite end in said slot, a pin extending transversely through said sleeve and rod, and a clamping screw nut arranged on said valve member and engaging said adjusting sleeve.

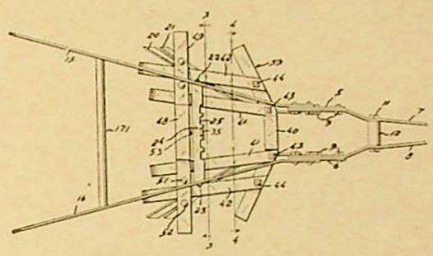
2,311,352
RUNGLESS LADDER
Ernest L. Seiler, Stockton, Calif.
Application December 15, 1941, Serial No. 423,070
7 Claims. (Cl. 227—25)



1. A ladder including an elongated vertical member, means to support said member in a substantially vertical position, and vertically separated units on the member adjustable along the same independently of each other, a seat mounted on the upper unit, foot locating and retaining elements on the lower unit whereby an upward movement of the feet will manipulate said unit and a handle element mounted on the upper unit in front of the seat in upstanding relation thereto for manipulating said upper unit.

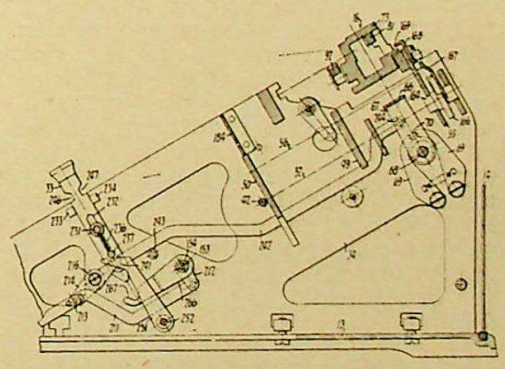
2,311,353
CULTIVATOR
James B. Shope, Ranger, Ga.
Application December 3, 1940, Serial No. 368,405
3 Claims. (Cl. 97—167)

1. A cultivator comprising a pair of laterally spaced vertical plates, draft bars connected to extend forwardly from said plates, laterally outwardly and rearwardly angulated horizontal spring fingers connected to project rearwardly from said plates, upwardly and rearwardly inclined handle bars projecting from said plates, a detent bar connected between intermediate portions of said handle bars, depending bars connected at their lower ends to said spring fingers and at their upper ends to said intermediate portions of the handle bars, a vertical laterally swingable hand lever having a laterally deflected lower portion, the terminal of said lower portion being pivoted to one of said depending bars, a link pivoted at one end to the remaining depending bar and pivoted at its opposite end to a lower part of said hand lever, said hand lever being swingable on the last-mentioned pivotal point to cause



lateral approach or separation of said depending bars and corresponding deflection of said spring fingers, a first frame anchored on a forward part of said spring fingers, rearwardly extending spring teeth secured at their front ends to said frame, a second frame secured to rear portions of said spring teeth, said second frame including a riser located behind said detent bar a height above the pivotal point of said hand lever, and a contractile spring stretched between said pivotal point and said riser.

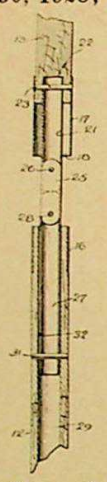
2,311,354
CALCULATING MACHINE
Carl M. Friden and Frederick C. Carroll, Jr., Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application January 16, 1939, Serial No. 251,058
5 Claims. (Cl. 235—82)



1. In an optional key-set and key-responsive calculating machine, a register, actuating means for said register, drive means for said actuating means, settable means for determining positive and negative registration on said register, selecting mechanism for controlling the entry of values in said register, ordinal keys for controlling said selecting mechanism, a key-responsive operation control key, a controlling connection from said control key to said settable means and a controlling connection between said ordinal keys and said drive means for conditioning the machine for key-responsive operation, said control key being movable in one direction to condition the connection between the ordinal keys and the drive means for key responsive operation and being selectively movable in either of two other

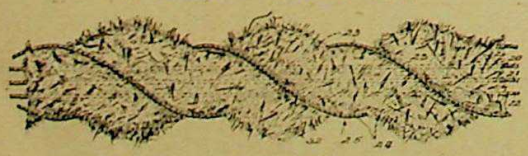
directions to operate the connection between said control key and said settable means to condition said settable means for positive or negative registration on said register respectively.

2,311,355
TENT POLE
Clifford C. Thornquist, Grand Rapids, Mich.
Application December 8, 1942, Serial No. 468,193
6 Claims. (Cl. 135—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



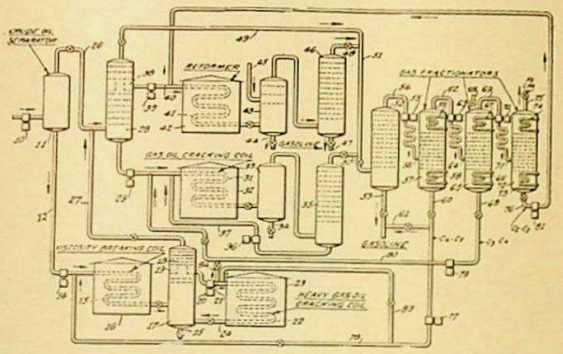
1. In a sectional pole, a plurality of pole sections adapted to be coupled together in end-to-end relationship; coupling means permanently secured to each section, the coupling means consisting of an external ferrule rigidly affixed to the end of one of the pole sections and a coupling sleeve rigidly affixed to the other pole section and extending beyond the end of the section to provide a socket, said socket being of dimensions to receive the aforementioned ferrule; together with a counterbore in each section, and connector means mounted within said counterbores, said connector means comprising an anchor member positioned in the counterbore of each section and adapted to extend beyond the end of the section, a pivot adjacent the outer end of each of said anchor members, a link interconnecting said pivots, and a lost motion connection between one of said anchor members and its pole section, whereby the anchor member may slide inwardly substantially beyond the end of the pole section, to permit the outer end of the anchor member of the opposite pole section to be received in the counterbore and thus permit the sleeve of the coupling means to telescope over the aforementioned ferrule.

2,311,356
ASBESTOS INSULATING UNIT OR YARN
William F. Astley, Cicero, Ill., assignor to Union Asbestos & Rubber Company, Cicero, Ill., a corporation of Illinois
Application February 15, 1941, Serial No. 379,039
14 Claims. (Cl. 57—144)



1. An asbestos yarn capable of withstanding temperatures that are destructive to cotton fibers, which comprises a core of spun asbestos yarn having a relatively rough irregular surface, and a cover of loose asbestos fibers entirely surrounding said core and intimately engaging said irregular surface to thereby form a core yarn having a spun asbestos core and a less compact asbestos cover surrounding the core.

2,311,357
CONVERSION OF HYDROCARBONS
Harold V. Atwell, Beacon, N. Y., assignor to Process Management Company, Inc., New York, N. Y., a corporation of Delaware
Application April 3, 1940, Serial No. 327,553
2 Claims. (Cl. 196—9)



1. In the conversion of hydrocarbons to form gasoline hydrocarbons, the process that comprises distilling crude petroleum to form a residual fraction and vapors and fractionating the vapors to form a lighter fraction and a heavier fraction, directing said residual fraction to a first cracking zone wherein it is subjected to cracking under viscosity breaking conditions, fractionating the resultant cracked products to separate higher boiling constituents from lower boiling constituents comprising components higher boiling than gasoline, subjecting said lower boiling constituents to further fractionation together with vapors produced in the crude oil distillation so that components thereof are combined with said lighter and heavier fractions, passing said higher boiling constituents to a second cracking zone wherein they are subjected to cracking conditions of temperature and pressure to effect conversion into gasoline constituents, fractionating the resultant cracked products together with the viscosity broken products from the first cracking zone, directing said heavier fraction to a third cracking zone wherein it is subjected to cracking, directing said lighter fraction to a fourth cracking zone wherein it is subjected to cracking, subjecting the second cracking zone to a cracking temperature, subjecting the third cracking zone to a higher cracking temperature, subjecting the fourth cracking zone to a still higher cracking temperature, fractionating vapors evolved from said third and fourth cracking zones to separate a fraction comprising gasoline from lighter components comprising normally gaseous hydrocarbons, subjecting such lighter components comprising normally gaseous hydrocarbons to fractionation to form heavier, intermediate and lighter normally gaseous fractions, combining said heavier gaseous fraction with the aforesaid residual fraction for conversion therewith, combining said intermediate gaseous fraction with the aforesaid heavier fraction for conversion therewith, combining said lighter gaseous fraction with aforesaid lighter fraction for conversion therewith and maintaining conditions of temperature and pressure in each of said cracking zones adapted to effect conversion of normally liquid and normally gaseous hydrocarbons into components within the gasoline boiling range.

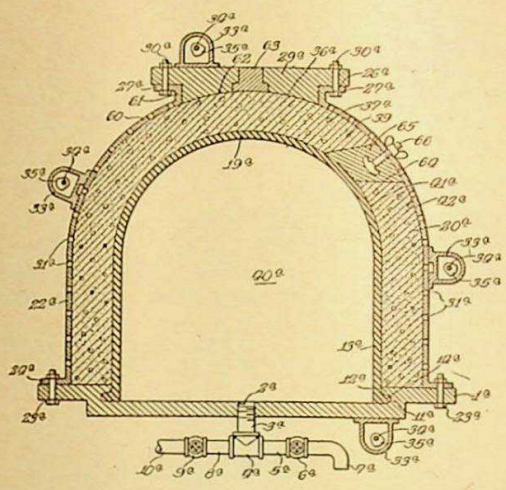
2,311,358

APPARATUS AND METHOD FOR MOLDING CONCRETE

Robert William Baily, Narberth, Pa.

Application November 25, 1940, Serial No. 367,093

7 Claims. (Cl. 25—130)



1. In an apparatus of the kind described, an outer hollow form member having end closure elements at least one of which is removable, an inner hollow flexible form member having one closed end and having the other end closed by a closure element of the first member, and means for supplying fluid under pressure to the inside of the second member.

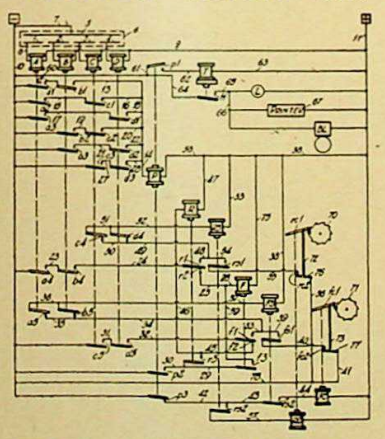
2,311,359

CONTROL SYSTEM

John L. Barker, Norwalk, Conn., assignor to Automatic Signal Corporation, East Norwalk, Conn., a corporation of Delaware

Application March 30, 1940, Serial No. 327,020

13 Claims. (Cl. 175—320)



1. A control system including in combination a multiple switch treadle having more than two switches arranged closely side-by-side for actuation in overlapping sequence, an electrical device, and relay means connected between said switches and said device to operate said electrical device responsive to actuation of all said switches in a progressive sequence in which more than two switches are actuated concurrently and in which said means are so operative responsive only to actuation of the first two switches concurrently before the last two switches are both actuated, followed by actuation of said last two switches and release of at least one of said first two switches while said last two switches remain actuated, followed by release of at least all except the last switch.

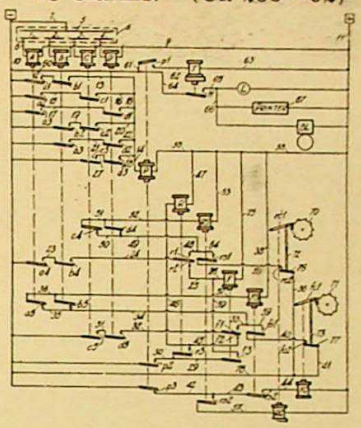
2,311,360

CONTROL SYSTEM

John L. Barker, Norwalk, Conn., assignor to Automatic Signal Corporation, East Norwalk, Conn., a corporation of Delaware

Original application March 30, 1940, Serial No. 327,020. Divided and this application September 26, 1940, Serial No. 358,466

15 Claims. (Cl. 235—92)



8. In a control system including more than three switches arranged closely side-by-side for operation in a progressive sequence in which more than two adjacent switches are closed concurrently, relays connected to be operated by closure of the respective switches, another relay connected to be operated by concurrent operation of any two of the first mentioned relays, an additional relay connected to be operated by concurrent first operation of the first two of the first mentioned relays, and to be maintained operated by operation of said other relay, a further relay connected to be operated by concurrent operation of said additional relay and of a third and fourth of said first relays together with concurrent release of one of said first two relays, and an output circuit controlled by operation of said further relay and concurrent release of said other relay; time controlled switch means having a delayed action of its switch and connected to be operated by operation of said other relay, and an output device including a circuit controlled by the last mentioned switch to indicate prolonged concurrent operation of two or more of the first mentioned relays which may interfere with proper operation of the first mentioned output circuit by preventing such relay release.

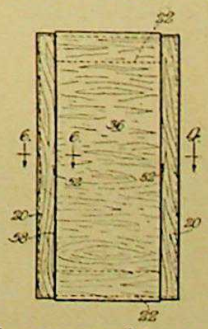
2,311,361

PANEL CONSTRUCTION

Forrest F. Beil, Clinton, Iowa, assignor to Curtis Companies Incorporated, Clinton, Iowa, a corporation of Iowa

Application May 26, 1941, Serial No. 395,267

7 Claims. (Cl. 20—35)



1. In a panel door assembly, a central member composed of wood with the grain running transversely of the member, said member having out-

wardly extending tongues along its longitudinal edges, and a frame consisting of longitudinally extending stiles connected by transversely extending end rails, said stiles having grooves in their inner faces receiving the tongues on said central member, said central member being fixed against sliding movement in said grooves at laterally opposite points intermediate the ends of said stiles, but being otherwise free to slide therein in swelling or shrinking.

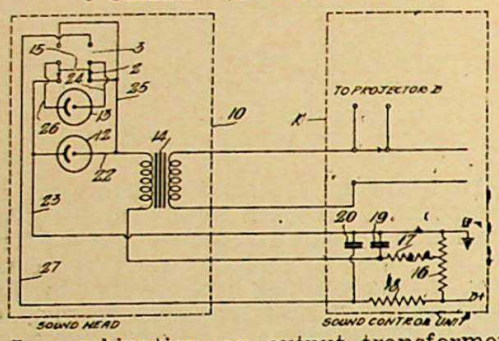
2,311,362

SOUND REPRODUCING APPARATUS

Herbert Belar, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application December 29, 1939, Serial No. 311,508

8 Claims. (Cl. 179—100.3)



1. In combination, an output transformer, a pair of input devices, and switching means for selectively connecting both of said input devices directly across the entire primary winding of said transformer either in push-pull or in parallel.

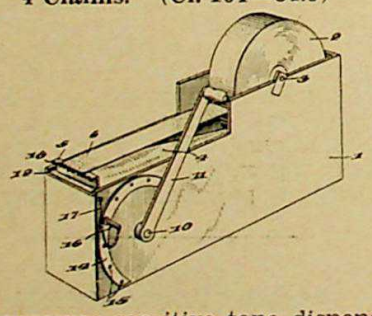
2,311,363

TAPE DISPENSING APPARATUS

Theodore S. Bevier, Alhambra, Calif.

Application June 11, 1942, Serial No. 446,671

4 Claims. (Cl. 164—84.5)



1. In a pressure sensitive tape dispensing device, a casing, a tape holding roll in said casing, a tape dispensing slide beneath and spaced from said roll and the tape carried thereby, a handle for operating said slide, a stop for limiting the movement of the handle, there being a plurality of seats for said stop in said casing.

2,311,364

BROAD-BAND ANTENNA

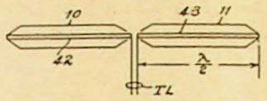
Werner Buschbeck, Berlin-Grunewald, and Heinz Zumbusch, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian

Application August 24, 1940, Serial No. 354,016

In Germany April 3, 1939

2 Claims. (Cl. 250—33)

1. A short wave antenna having a substantially constant reactance over a broad band of frequencies comprising a hollow radiator having a length electrically equal to a half of the operating wavelength and a transverse dimension which is a substantial fraction of the operating wavelength and a feeder line for energizing said radiator, said feeder line being connected to one end



of a conductor within said radiator, said conductor having an electrical length equal to a half wavelength and having its other end connected to said radiator.

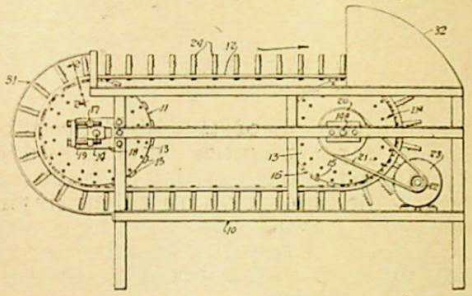
2,311,365

POULTRY PICKING MACHINE

Harold C. Campbell, Ashley, Ohio, assignor to The Ashley Machine Company, Piqua, Ohio, a corporation of Ohio

Application October 17, 1940, Serial No. 361,482

18 Claims. (Cl. 17—11.1)



1. In a poultry picking machine, a plurality of resilient individual picking elements, each formed with a plurality of projections for engaging and frictionally gripping feathers, means to which one end of each of said elements is attached in spaced relation, and means upon which said first mentioned means is operatively supported while having movement relatively thereto in an endless path, a part of which is relatively straight.

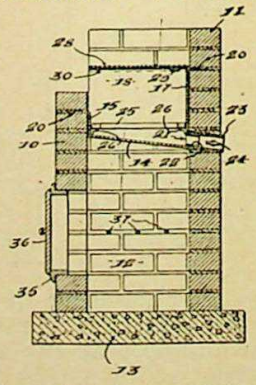
2,311,366

OUTDOOR FIREPLACE

Hugh D. Carey, Syracuse, N. Y.

Application October 3, 1940, Serial No. 359,567

8 Claims. (Cl. 126—25)



6. An outdoor fireplace comprising a vertically arranged hollow masonry structure open at its top and a sheet metal open top box-like structure consisting of integral front, side and rear walls, and an inclined bottom supported therein by means of outwardly extending flanges integral with the said walls thereof which flanges extend into the said masonry, and the said front wall of the box-like structure being of lesser height than the side and rear walls thereof, the said masonry consisting of front, side and rear walls, the top of said front wall thereof being of lesser height than the tops of said side and rear walls,

and the disposition of the box-like structure within the hollow masonry being such that the top of the front wall thereof is below the top of the front wall of the masonry and the tops of the side and rear walls thereof are below the side and rear walls of the masonry, fuel grate means in the box-like structure below the top of the masonry front wall and below the top of the front wall of the box-like structure, and a grill means to receive and support food to be cooked mounted in the hollow masonry below the top of the side and rear walls of the masonry and above the top of the said masonry front wall thereby providing an opening between the top of the said front wall of the masonry and the grill and through which opening fuel may be inserted to be received on said grate and whereby the said side and rear walls of the masonry structure also prevent undue drafts of air that are detrimental to combustion as well as to the food that is being cooked.

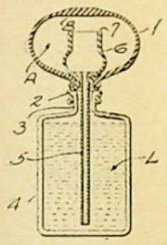
2,311,367

LIQUID APPLICATOR

Laura A. Chambers, St. Louis, Mo.

Application April 22, 1940, Serial No. 330,918

10 Claims. (Cl. 221—147)



1. In a device of the class described, a bulb of resilient material, a hollow tube opening into the interior of the bulb and projecting therefrom for insertion into a fluid container, said bulb being compressible to force fluid therein through said tube and, upon release from pressure, to expand to normal contour and thereby take in fluid through said tube, a partition in said bulb and surrounding the inlet from said tube, the space between said partition and the side of said bulb being adapted to trap fluid drawn into said bulb through said tube, there being a vent in the side of said bulb for discharging trapped fluid independently of said tube when the bulb is again compressed.

2,311,368

MEANS FOR TRANSFORMING ROTARY TO RECIPROCATORY MOTION AS APPLIED TO CUTTING MACHINES

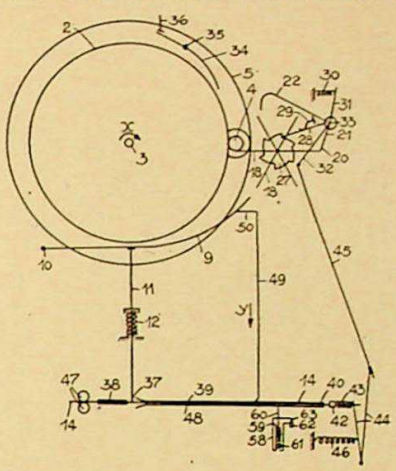
Camillo Cito, Uccle-Brussels, Belgium; vested in the Alien Property Custodian

Application March 22, 1941, Serial No. 384,768

In Belgium April 4, 1940

20 Claims. (Cl. 164—47)

20. Guillotine shears, comprising a rotating disc, a guide concentric to said disc, a rolling member freely mounted between the periphery of the disc and the guide, a tool holder penetrating into said guide sufficiently close to the periphery of the disc to be reciprocated by the rolling member when the latter is carried round by the disc between said disc and said tool holder, means for permanently urging said tool holder towards said disc, means for restoring the rolling member to normal position after it has actuated said tool holder, means for arresting the rolling member in its path in advance of the place of encounter with the tool holder, said means being adapted to release the rolling member, a continuous feeding device for material to be sheared, a stop arranged to be pushed back by said material when the latter extends beyond the tool for a desired length, rolling member release means located between said



stop and said arresting means said release means being operated by said stop, and a spring between said stop and said last mentioned means sufficiently stiff not to be compressed by a force equal to the passive resistance of the members put in motion for causing release of the rolling member.

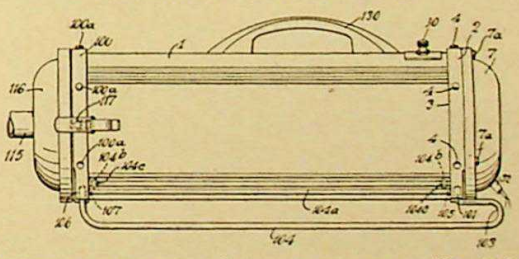
2,311,369

TANK TYPE VACUUM CLEANER AND SUPPORTING MEANS THEREFOR

William J. Clements, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a corporation of Illinois

Application April 11, 1941, Serial No. 388,049

8 Claims. (Cl. 230—117)



1. In a vacuum cleaner, a generally tubular housing, means for supporting it normally with its axis horizontal, a motor assembly and a fan assembly secured to the motor assembly, said assemblies being positioned within said housing with their axes horizontal, a normally fixed connection between the motor assembly and the end of the housing, including a ring removably secured to the housing end, the motor and fan assemblies being secured to and unitarily removable with said ring, said supporting means for said housing being secured to and unitarily removable with said ring.

2,311,370

AUTOMATIC RECLOSING CIRCUIT BREAKER EQUIPMENT

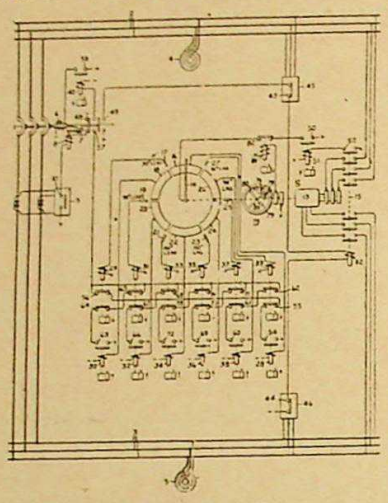
Selden B. Crary, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 18, 1941, Serial No. 411,282

10 Claims. (Cl. 171—118)

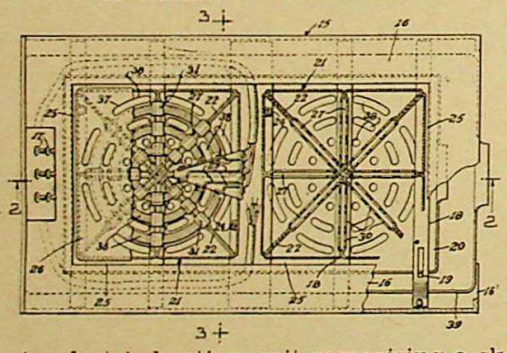
8. In combination, two interconnected independently energized alternating current circuits, means for disconnecting said circuits from each other, means dependent upon the frequency dif-

ference of said circuits when disconnected from each other for reconnecting said sources together during a range of phase angle displacement of the voltages of said circuits which varies in-



versely with the frequency difference, and means dependent upon the rate-of-change of said frequency difference for rendering said reconnecting means inoperative.

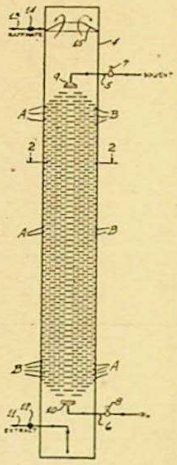
2,311,371
ELECTRIC HEATER
Edward Chase Crowley, Rhinebeck, N. Y.
Application June 13, 1940, Serial No. 340,288
10 Claims. (Cl. 219—37)



1. An electric heating unit comprising a skeleton lattice-work frame, insulator elements with transverse bores therein supported in spaced apart relationship in said frame, and an electric heating element disposed throughout said frame and threaded through and supported in said bores in said insulators, said skeleton lattice-work frame being composed of sections of strip material disposed both to constitute said frame and to form in said frame substantially parallel, narrowly spaced-apart, two wall supports for said insulator elements with parallel notched openings in said two walls, and said insulator elements constituting a bridge for said bore between and across both of said two walls and fitting snugly in said notched openings and between said walls.

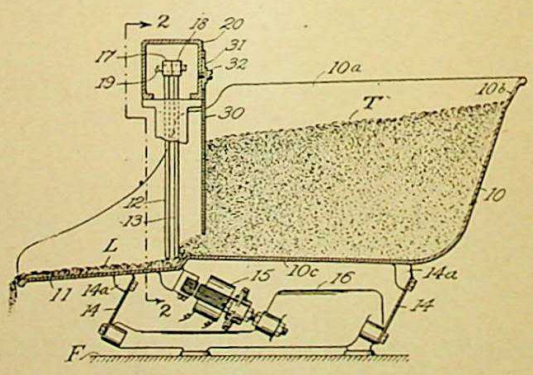
2,311,372
PROCESS OF EXTRACTING CONSTITUENTS OF HYDROCARBON LIQUIDS
Eddie M. Dons and Oswald G. Mauro, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware
Application May 1, 1940, Serial No. 332,736
8 Claims. (Cl. 196—13)

1. In the art of using selective solvents to extract constituents of hydrocarbon liquids, the countercurrent process which comprises transmitting continuous streams of the selective solvent and hydrocarbon liquid into different portions of an extracting chamber, dividing resultant solutions into approximately concentric annular rising and descending streams at differ-



ent elevations in said extracting chamber, the annular rising streams formed at each of said elevations being of successively increasing diameters and separated from each other, and causing annular descending streams of said solutions to intersect and descend between separated rising streams of different diameters at each of said elevations.

2,311,373
TOBACCO FEEDING MECHANISM
James P. Durning, St. Albans, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application February 7, 1940, Serial No. 317,676
10 Claims. (Cl. 131—108)



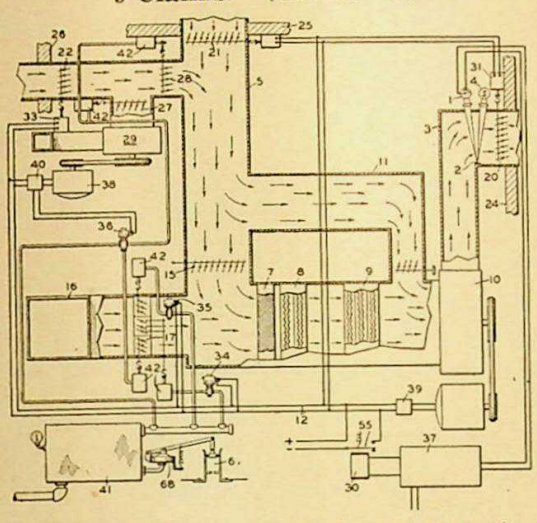
1. In a tobacco feeding mechanism for cigar machines, the combination with a hopper provided with an upstanding back, connecting side walls and a substantially horizontal bottom provided with a discharge section, of a vertical support, relatively movable rakes comprising closely spaced downwardly extending prongs mounted in said support and positioned with their free ends proximate said bottom, and a plate mounted on said support and located between said side walls for confining tobacco in said hopper, said plate being so constructed and arranged that tobacco confined in said hopper may move beneath said plate and between said prongs of said rakes.

2,311,374

AUTOMATIC FIRE CONTROL SYSTEM FOR VENTILATING OR AIR CONDITIONING SYSTEMS

Paul M. Farmer, Maplewood, N. J., and Francis C. Evans, Dongan Hills, Staten Island, and Richard F. Spamer, Lynbrook, N. Y., assignors to The American District Telegraph Company, New York, N. Y., a corporation of New Jersey

Application November 1, 1938, Serial No. 238,148
9 Claims. (Cl. 169—2)



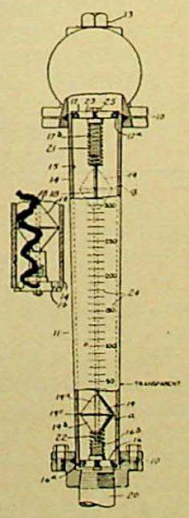
9. In combination, an enclosure, an air conditioning system therein comprising means for conditioning air, a duct system for supplying air to said enclosure from said means, a fan for impelling air through said duct system, a plurality of dampers for controlling the flow of air through said duct system, smoke detector apparatus for detecting smoke in the air circulated by the fan, means responsive to said smoke detector apparatus for closing all dampers and stopping the fan in said air conditioning system and means for delaying the closure of said dampers while rotation of said fan is stopping to thereby prevent abnormal pressure and the collapse of ducts.

2,311,375

FLOW INDICATOR

Theodore Farwick, Elizabeth, N. J., assignor to American Gas Furnace Company, Elizabeth, N. J., a corporation of New Jersey

Application October 18, 1941, Serial No. 415,553
2 Claims. (Cl. 73—209)



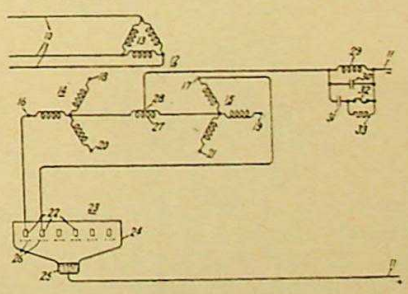
1. A gauge glass assembly for indicating gas flow rates adapted to be inserted as a unit in a gauge fixture of a conduit system and clamped about its end peripheries to seal same therein comprising a transparent glass tube having relatively smooth ends and graduated indicia markings therebetween, said tube having its bore tapered uniformly from end to end; a two-way symmetrically coned float member movable axially within said bore of the tube, the maximum diameter of said float forming a line of demarcation between the upper and lower coned surfaces of the float adapted to cooperate with said indicia markings from which readings may be taken and said float having a maximum diameter at said line of demarcation substantially equal to the bore of the glass tube at the point of minimum reading; stationary guide means within the glass tube for said movable float member for guiding the float axially of the tube and for maintaining said float out of contact with the wall of said tube in all normal positions of the float axially in said tube; centering supports having flow openings carried by the tube at each end thereof for centering said guide means; shock absorbing means attached to said supporting means and projecting within the tube from each end thereof for limiting the extremes of float movement to points approximately coincident with the maximum and minimum points of said indicia markings; and means including said guide means for securing said glass tube, coned float, centering supports and attached resilient means together as a unitary assembly capable of insertion and removal as such in a gauge fixture.

2,311,376

PROTECTIVE CIRCUIT

Levin W. Foster, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application September 11, 1941, Serial No. 410,403
5 Claims. (Cl. 175—363)



4. In combination, an alternating current supply circuit, a direct current load circuit, electric valve converting apparatus interconnecting said circuits, a filter connected in one line of said direct current load circuit comprising parallel connected inductive and capacitive impedance elements tuned to a harmonic of said alternating current circuit, an impedance connected in series with one of said elements, and a fusible element paralleling said impedance and normally short-circuiting the same, said element being designed to rupture upon a predetermined current condition and insert said impedance in circuit with said capacitive element to detune said filter.

2,311,377

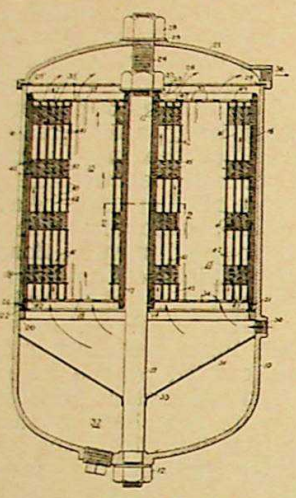
OIL FILTER

Moritz Gaertner, New York, N. Y.

Application June 21, 1939, Serial No. 280,293
16 Claims. (Cl. 210—178)

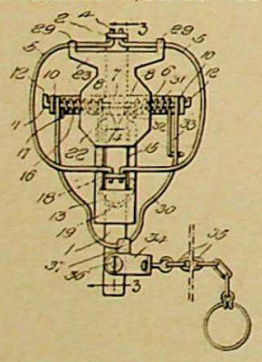
1. A filter for purifying fluids comprising alternate continuous layers of porous and relatively

non-porous material convolutely wound upon each other, said porous layers being of the order of 0.025 to 0.125 inch thick, the outer ends of said porous layers being tapered towards the outer surface of the wound filter, and a non-porous covering about the filter contiguous with the tapered porous layer ends in a manner to



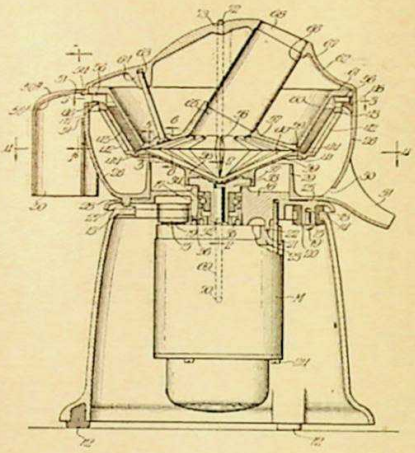
prevent by-passing of the fluid about said outer ends, and means for passing the fluid edgewise through said porous layers in the axial direction of the wound filter, said porous layers having a plurality cavities spaced along said axial direction providing open regions for storing impurities of the substance passed therethrough.

2,311,378
TRAP
Julian S. Galiano, Cut Off, La., assignor of forty per cent to Harry G. Simoneaux, Golden Meadow, La.
Application October 22, 1941, Serial No. 416,115
2 Claims. (Cl. 43—88)



1. A trap comprising a base, a cross bar carried by the base and extending transversely thereof in spaced relation to the front end of the base, jaws pivoted to the base for swinging movement transversely thereof from open position upwardly to closed position, a rod carried by the cross bar and extending across the base, a lever pivoted at its front end to said rod over the base and extending longitudinally of the base and having a portion for engaging the jaws and swinging the jaws upwardly to closed position, a spring carried by the rod urging the lever upwardly, a bearing bar extending across the front end of the base under the front ends of the jaws, a trip plate over the base extending longitudinally thereof and having a depending flange at its front end provided with forwardly extending ears pivoted to ends of the bearing bar and mounting the trip plate for vertical tilting movement, and fingers extending forwardly from opposite sides of the trip plate at the ends of its flange for engaging over forward portions of the front ends of the depressed jaws and releasably holding said jaws open.

2,311,379
JUICER
Maxwell D. Gillanders, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application May 6, 1940, Serial No. 333,639
14 Claims. (Cl. 146—76)

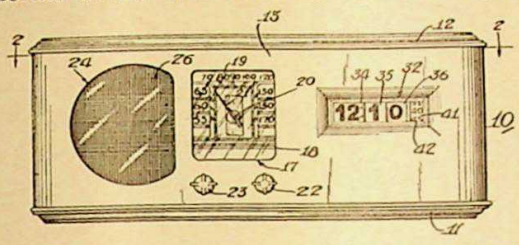


1. A fruit and vegetable juicer comprising a mounting base, a motor mounted thereon and depending therefrom, a housing for said motor, resilient means for mounting said mounting base on said housing, a lower fruit and vegetable cutter mounted on the shaft of said motor and comprising an inverted cone provided with substantially radially extending cutter teeth, a stationary upper cutter above said lower cutter, said stationary cutter being in the shape of a frustrum of a cone and provided with substantially radially extending cutter teeth, a narrow discharge slot between the peripheries of said lower and stationary cutters through which pulp and juice are expelled by centrifugal force, a feed tube discharging through said stationary cutter into the space between the lower and stationary cutters, a screen carried by the lower cutter outside said peripheral slot, said screen being inverted truncated cone shape, a juice receiving bowl surrounding said screen and having a juice discharge spout, said juice bowl having an annular ledge adjacent the top of said screen and a pulp discharge opening above said ledge, a blade carried by the upper edge of said screen to sweep pulp moved up the screen by centrifugal force and additional pulp from said peripheral slot off said ledge and through said pulp discharge opening, and a pulp discharge chute extending downwardly from said pulp discharge opening.

2,311,380
RADIO CLOCK
Moritz M. Gottlieb, Allentown, Pa.
Application February 5, 1940, Serial No. 317,319
2 Claims. (Cl. 250—14)

2. A radio clock including a single cabinet containing both a radio and a cyclometer clock, said cabinet having a radio-dial opening, and a radio-dial behind said opening having station-telling numerals exposed to view therethrough, said cabinet having a time opening therein, both openings visible simultaneously from the same point of view, with but a single set of time-telling numerals exposed to view at any one time

through said time opening and with the effective over-all clock-face area surrounding the time opening substantially smaller than the effective over-all radio-dial-face area; said time-telling numerals being substantially more conspicuous



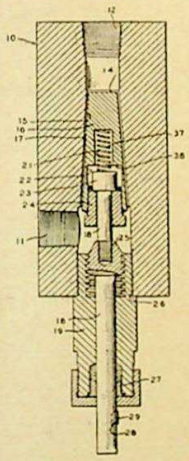
than said station-telling numerals, said cyclometer clock including means for intermittently changing said time-telling numerals so as to bring into view every minute only the pertinent time-telling numerals.

2,311,381

DEVICE FOR DAMPING PRESSURE

Howard D. Green, Compton, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California

Application February 24, 1941, Serial No. 380,279
4 Claims. (Cl. 138—46)



3. A device for damping pressure comprising a housing having an inlet opening and an outlet opening, a bore in said housing communicating with said inlet opening and said outlet opening and having a tapered seat, the smaller portion of said tapered seat being adjacent to said outlet opening, a tapered member in said bore, means to adjust the position of said tapered member with respect to said tapered seat in order to vary the area of the passageway between said tapered member and said tapered seat as desired, said tapered member having a recess, and a spring in said recess adapted to urge said tapered member toward said tapered seat.

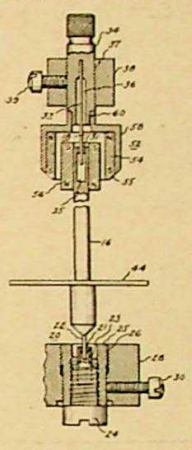
2,311,382

MAGNETIC SUSPENSION

Albert Hansen, Jr., Nahant, Mass., assignor to General Electric Company, a corporation of New York

Application October 4, 1940, Serial No. 359,732
7 Claims. (Cl. 308—1)

1. In combination in a magnetic suspension, a tubular permanent magnet magnetized longitudinally of said tube to form poles of unlike polarity at the ends thereof, a vertical shaft to be supported, a second permanent magnet arranged in telescopic and coaxial relation with said tubular magnet, said second magnet being magnetized in the direction of its axis to form spaced poles of unlike polarity, means for supporting one of said magnets, and means for securing the other of said magnets to said shaft with its poles



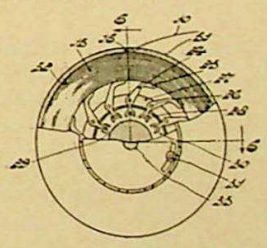
positioned respectively approximately adjacent poles of opposite polarity of said one magnet, said permanent magnets having their polar axes parallel with said shaft so that a vertical force is produced to support said shaft due to the interaction of the magnetic fields of said magnets.

2,311,383

FILM UNWINDING MECHANISM

Jan Jesayas Hardenberg, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 30, 1939, Serial No. 282,293
In Germany July 25, 1938
3 Claims. (Cl. 242—72)



1. A film unwinding device comprising an annular body having an internal take-up surface and adapted to receive an annular roll of film, the periphery of said body being provided with a slot through which the film passes during the unwinding, a core within the annular body adapted to support the film during unwinding, said core comprising a central member, an annular adjusting member surrounding the central member and a plurality of levers pivoted on said adjusting member, the outer portions of said levers forming an annular supporting surface for the film roll and the inner portions thereof being secured to said central member, and means to secure said adjustment member to said central member.

2,311,384

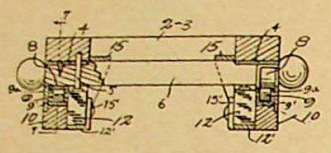
ROLLER ROCKER

Augustus J. Harpstrite, Los Angeles, Calif., assignor to Julia C. Harpstrite, Los Angeles, Calif.

Application April 10, 1940, Serial No. 328,913
1 Claim. (Cl. 155—71)

A rockerless, oscillating chair including a legless frame for a seat, a non-shiftable oscillative axle bar extending from side to side of and rigidly fixed to the under side of the seat frame, a foot

frame and anti-friction bearings in the tops of the sides of the foot frame for directly journalling ends of the said bar, rubber blocks countersunk rigidly on the foot frame and inwardly of and adjacent to the said bearings, and pins fixed in and extending radially down from the axle and interengaged centrally in the said blocks to com-



press the same as the seat frame oscillates with the axle on the bearings; the arrangement being such that oscillation is about an axis close to and under the seat frame, the blocks being bodily below the bar and the blocks having a reaction function on the pins in either direction of stroke of the pins.

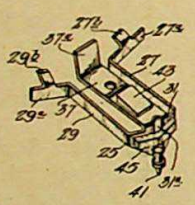
2,311,385

SOUND TRANSLATING APPARATUS

Harold J. Hasbrouck, Jr., Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 1, 1940, Serial No. 332,635

13 Claims. (Cl. 179—100.41)



1. In an electrical signal translating device, the combination of means providing a magnetic circuit and including two air gaps, and a substantially U-shaped conductor having its parallel arms disposed one in each of said air gaps, the ends of said arms being anchored to said means and the cross arm of said conductor being freely supported for movement in its own plane either substantially linearly or rotatably, and hinge means coupled to said cross arm, said hinge means including two hinge axes about one of which said cross arm is movable linearly to cause said parallel arms to move simultaneously in the same direction in their respective air gaps and about the other of which said cross arm is movable rotatably to cause said parallel arms to move simultaneously in opposite directions in their respective air gaps.

2,311,386

ART OF STABILIZING TALL-OIL MATERIALS

Torsten Hasselstrom, Savannah, Ga., assignor of one-half to G & A Laboratories, Inc., Savannah, Ga., a corporation of Georgia

No Drawing. Application March 6, 1940, Serial No. 322,626

13 Claims. (Cl. 260—97.5)

1. The process of obtaining from tall oil a material containing stable resin acid, which comprises the step of heating a tall oil containing an unstable resin acid component including Steele's abietic acid with $\frac{1}{10}$ to 3 percent of iodine at a temperature of 100 to 240 degrees C. for a time of substantially one to two hours until Steele's abietic acid has substantially disappeared.

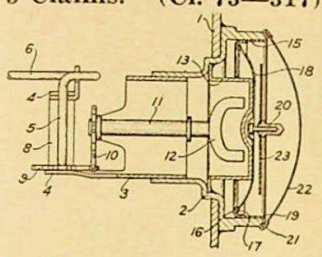
2,311,387

LIQUID LEVEL GAUGE

Clark L. Hastings, Brighton, N. Y., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y., a corporation of New York

Application October 13, 1941, Serial No. 414,711

5 Claims. (Cl. 73—317)



1. In a liquid level gauge, the combination with a housing carrying an operating magnet and float mechanism, of a closure extending over the magnet and sealed within the housing, a unitary assembly removably attachable to the housing and comprising supporting means, a crystal and dial carried thereby, a bearing carried by the dial, the dial and bearing being separated from the magnet by said closure, and an indicator on the bearing.

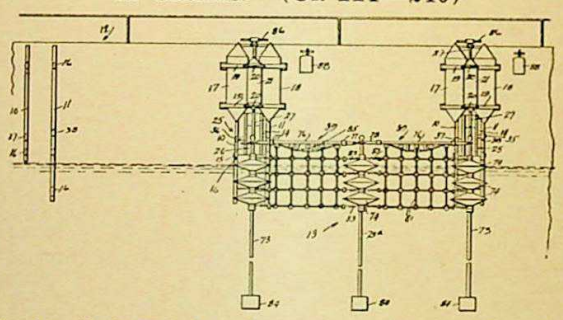
2,311,388

TORPEDO INTERCEPTOR

Jacob Haut, Brooklyn, N. Y.

Application September 5, 1941, Serial No. 409,638

12 Claims. (Cl. 114—240)



1. An interceptor for protecting ships from being struck by torpedoes, said interceptor comprising metallic network sections pivotally connected to each other, buoys for supporting said network sections in the water, means for suspending the said network sections and buoys from the ship in spaced relation thereto, said means comprising a plurality of pairs of spaced apart rails secured to the ship hull, a plate supported between each pair of said rails, a shock absorber mechanism carried by the plate, a pivotally mounted casing in operative engagement with the shock absorber mechanism, a contractible and expansible arm pivotally mounted on the casing at one end and hingedly connected at the opposite end thereof to a network section, and instrumentalities for releasably and readily removably locking the said suspension means in place on the ship hull.

2,311,389

METHOD AND APPARATUS FOR HANDLING ASPHALT

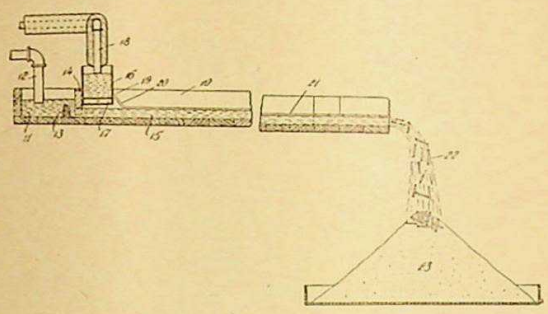
Robert C. Hawks and Emory M. Skinner, Augusta, Kans., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application July 31, 1941, Serial No. 404,812

3 Claims. (Cl. 83—91)

1. Apparatus for reducing molten asphalt to

small pieces comprising means defining an elongated sloping fluid channel sharply constricted transversely at the lower end thereof, fluid supply means to supply a smooth stream of cooling fluid to the upper end of said channel, asphalt supply means below said fluid supply means to discharge upon said stream a plurality of hori-



zontally spaced streams of molten asphalt, said channel being of sufficient length below said asphalt supply means to permit the molten asphalt to become brittle by cooling through heat exchange with said cooling fluid before the same reaches the constricted portion of the channel.

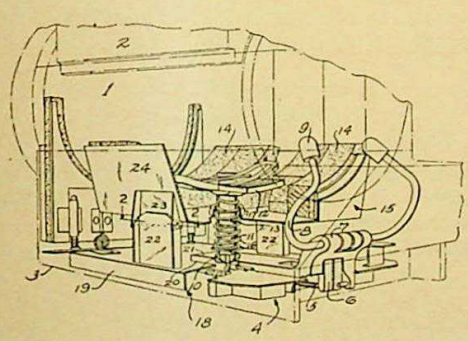
2,311,390

RAILWAY JOURNAL LUBRICATOR DEVICE

James J. Hennessy, Montclair, N. J.

Application December 4, 1940, Serial No. 368,426

2 Claims. (Cl. 308—84)



1. In a railway axle journal lubricating device for insertion in a journal box, structure arranged to rest upon the bottom of the box and including a pump body, a conduit comprising upright telescoping tubular members, the lower end of one conduit member being seated upon the central portion of said body, a pan-like part extending laterally in opposite directions from the upper portion of the upper tubular member and carrying and positioning a wide non-metallic fiber-like distributor of relatively large area surrounding said conduit and arranged to fit against the journal to which the device is applied and to receive lubricant discharged from the upper end of said conduit, a plate associated with said pump body for positioning the latter in the journal box and provided with rigid upstanding guides spaced substantially from said conduit transversely of the structure, and depending guide elements fixed to said pan-like part and slidably engaging said guides and holding said pan-like part and distributor against movement laterally of the pump in the direction of movement of the adjacent surface of the rotating journal to relieve the telescoping conduit members of excess wear due to lateral thrust during their telescoping movements.

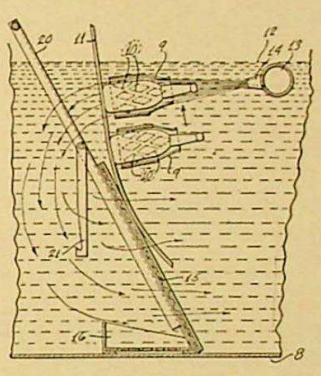
2,311,391

METHOD OF AND APPARATUS FOR REMOVING LABELS FROM BOTTLES

James L. Herold, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application December 6, 1940, Serial No. 368,752

6 Claims. (Cl. 141—7)



1. The method of removing labels from bottles which comprises submerging the bottles in a body of liquid to soak and loosen the labels, at the same time transmitting the submerged bottles to a label-removing zone in the liquid, and violently circulating portions of said liquid at said label-removing zone to forcibly remove the loosened labels from the submerged bottles, the last mentioned operation including the step of projecting a submerged stream of fluid approximately parallel with the surface of said body of liquid and across the course of the submerged bottles.

6. In an apparatus for removing labels from bottles, a soaking tank adapted to receive a body of liquid, means for submerging the bottles in said body of liquid to soak and loosen the labels, said submerging means including a bottle carrier movable into and out of the body of liquid, means for forcibly projecting portions of said liquid toward the submerged bottles to remove the loosened labels, said projecting means comprising a nozzle submerged in the liquid at one side of the course of said bottle carrier, and a pump communicating with the submerged nozzle to forcibly discharge a violent submerged stream of liquid from said submerged nozzle and through the bottle carrier, and a strainer to receive labels in the resultant stream of liquid, said strainer and nozzle being at opposite sides of the bottle carrier and at different elevations, so as to locate the strainer in the course of labels moving toward said bottle carrier.

2,311,392

RESILIENT CONTACT FOR BUMPER SWITCHES

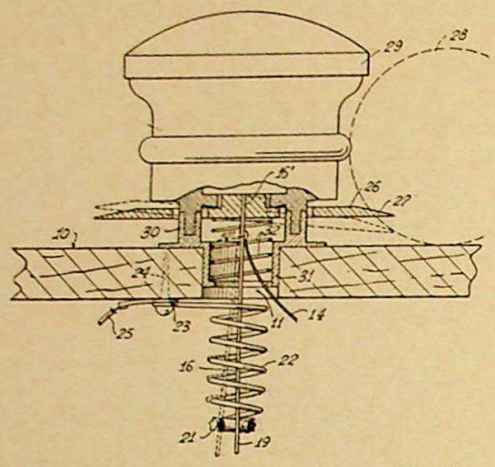
Harvey Heiss, Chicago, Ill., assignor, by mesne assignments, to American Molded Products Co., Chicago, Ill., a corporation of Illinois

Application February 19, 1941, Serial No. 379,583

3 Claims. (Cl. 200—52)

1. In combination, a board, a conductor member, a spring member, carried by the board and supporting said conductor member and constituting one side of an electric circuit, and, a second conductor member movably carried by the

board and adapted for movement into engagement with the first conductor member and being



formed substantially rigid and constituting the other side of the electric circuit.

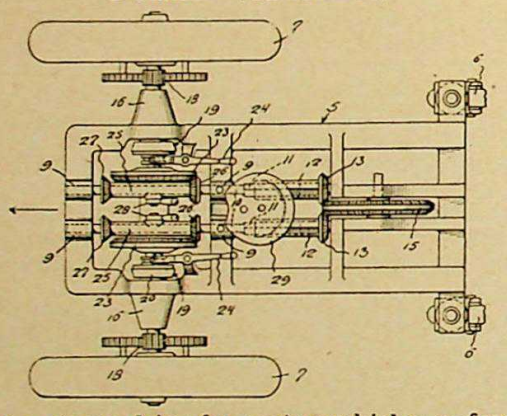
2,311,393

POWER DRIVE FOR MOTOR VEHICLES

Edward R. Honeywell, Salisbury, Md.

Application March 25, 1942, Serial No. 436,199

1 Claim. (Cl. 180—17)



In a power drive for motor vehicles, a frame, a front axle secured to the frame adjacent the forward end of the latter, ground traction wheels journaled on said axle, pilot type wheels supporting the rear end of the frame, journals paralleling the front axle in a plane thereabove and carried by opposite sides of the frame and extending outwardly therefrom, shafts supported by the journals and geared to the traction wheels, opposed gears journaled on the shafts, clutches for connecting and disconnecting the gears to said shafts, parallel drive shafts extending between said gears and journaled on the frame and extending forwardly and rearwardly of the gears and longitudinally of the frame, each of said drive shafts including telescopic sections having a rotatable drive connection therebetween, one section of each drive shaft being slidable on the frame and relative to its companion section and the latter-named section being non-slidable on the frame, pairs of spaced gears secured to the drive shafts and alternateingly moved into and out of mesh with the first-mentioned gears, sleeves on the drive shafts and free thereof and abutting the pairs of gears, pivotally mounted hand levers pivoted to said sleeves for sliding the latter in opposite directions to bring about opposite sliding movements of the slidable sections of the drive shafts for the alternate engagement and disengagement of the pairs of gears with the first-mentioned gears, and means for delivering an equal amount of power to the non-slidable sections of the drive shaft.

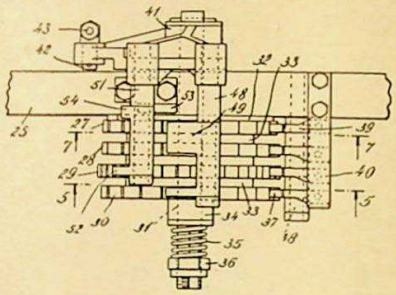
2,311,394

CONTROL MECHANISM

John O. Hunt, Ware Shoals, S. C., assignor to Ware Shoals Manufacturing Co., New York, N. Y., a corporation of South Carolina

Original application August 3, 1940, Serial No. 350,679. Divided and this application November 29, 1941, Serial No. 421,006

18 Claims. (Cl. 74—1)



1. A device for controlling the operation of a machine for the purpose of causing it to perform different operations in a cycle, which comprises a driver element, means normally operating to advance the driver element stepwise in timed relation to the operation of the machine throughout the operation of the latter, a master element, means operable to rotate the master element stepwise, said means being rendered ineffective by the driver element throughout the greater part of each rotation of the latter, the master element thereby advancing at a slower rate than the driver element, and means actuated by the master element in its advance for altering the operation of the machine to cause it to perform the different operations in the cycle.

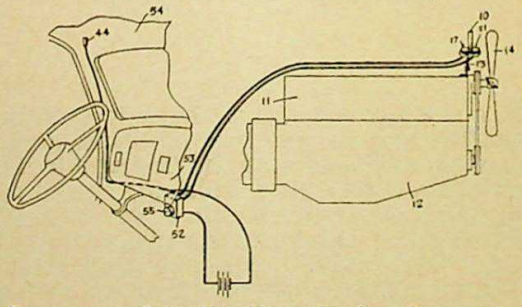
2,311,395

AUTOMOBILE ACCESSORY

Arthur A. Johnson, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

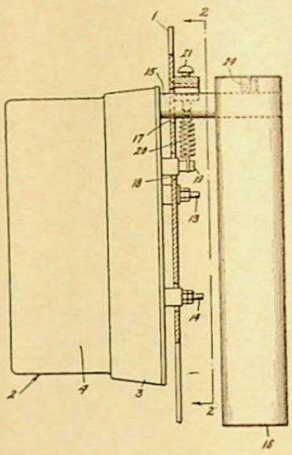
Application December 14, 1938, Serial No. 245,576

8 Claims. (Cl. 177—311.5)



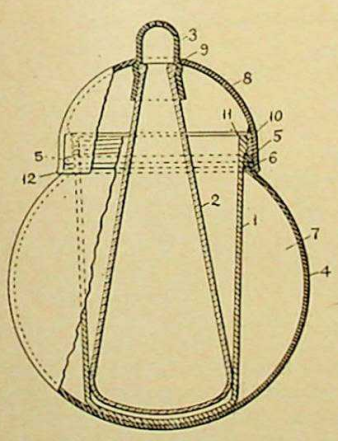
6. In a speed-indicating device for motor vehicles having a motor and a fan operated thereby; a vane responsive to the air currents produced by said fan; a circuit including a Wheatstone bridge having in one arm thereof a continuously variable resistance; means interconnecting said variable resistance and said vane, whereby movement of the vane in response to the air currents produced by the fan varies the said resistance; a signal circuit including a switch therefor; and a polarized relay connected across the terminals of said bridge and adapted to be actuated by a change in the direction of current flow across the bridge for controlling the switch in said signal circuit.

2,311,396
VIBRATION-FREE MOUNTING
Forrest H. Judkins, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 10, 1942, Serial No. 450,473
2 Claims. (Cl. 248—358)



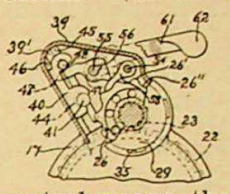
1. In combination, a vertical panel having mechanical vibrations, an instrument for mounting with its center of gravity in front of said panel, said instrument being adversely affected by said vibrations, a rearwardly extending weight fastened to said instrument in such a manner as to bring the center of gravity of the combined instrument and weight assembly in back of said panel, and a resilient vibration absorbing supporting connection fastened at one end to the back of said panel and at the other end to said assembly effectively vertically above its center of gravity when said instrument is in its desired position with respect to said panel.

2,311,397
NURSING DEVICE
Antonina M. Kazimirow, New York, N. Y.
Application November 25, 1941, Serial No. 420,335
3 Claims. (Cl. 215—11)



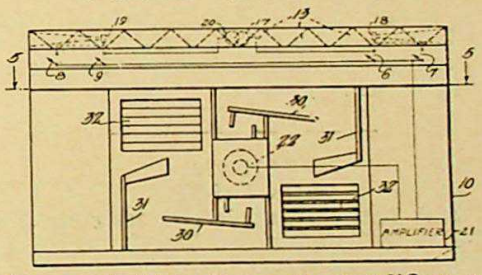
1. A nursing device having a tubular container open at one end with a large neck and having straight sides converging toward its bottom; a glass bottle with a nipple, the bottle having an enlarged bottom rigidly wedged at the bottom of the container at a distance therefrom; a hollow ball made of a resilient material enclosing the container; a hollow cap made of a resilient material enclosing the upper portion of the bottle and having an opening for the nipple, and means to hold the edges of the ball and of the cap against the neck of the container.

2,311,398
BRAKE OPERATING MECHANISM
Augustus F. Klasing, Joliet, Ill.
Application June 1, 1942, Serial No. 445,262
19 Claims. (Cl. 74—505)



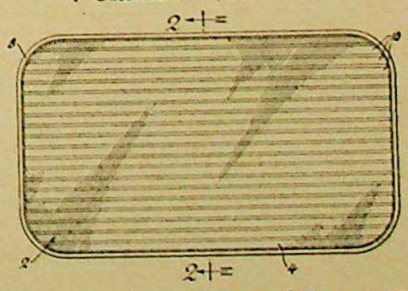
1. In brake control means, the combination of a housing having a slideway therein, a ratchet wheel having a series of shallow peripheral depressions thereby forming blunt, rounded projections, a detent having a contact portion shaped to conform to and enter said depressions, said detent being mounted for bodily sliding movement on the slideway of the housing at a tangent to the periphery of the ratchet wheel and adapted to be wedged into direct holding relation with the ratchet wheel, an oscillating lever exterior of the housing, and means within the housing and operated by said lever for actuating said detent.

2,311,399
ELECTRIC PIANO
Walter B. La Chicotte, Jr., Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1940, Serial No. 367,873
2 Claims. (Cl. 84—1.01)



1. In an electric piano, an amplifier, a plurality of high frequency speaker units oriented in different directions and adapted to be selectively electrically connected to said amplifier, a low frequency speaker permanently connected to said amplifier, progressively enlarged sound directing means having an outlet for directing sound therefrom, mechanical means at the outlet of the sound directing means for selectively directing said sound in different directions corresponding to the directions in which it is directed by the high frequency speaker units in operation, and a casing housing all of the aforesaid elements.

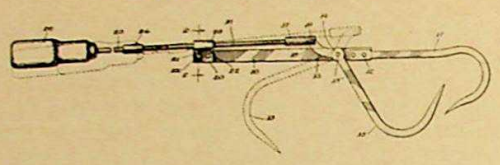
2,311,400
MIRROR
Stanford Landell, Grosse Pointe Farms, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 12, 1940, Serial No. 365,161
7 Claims. (Cl. 88—77)



1. In a rear view mirror for an automobile,

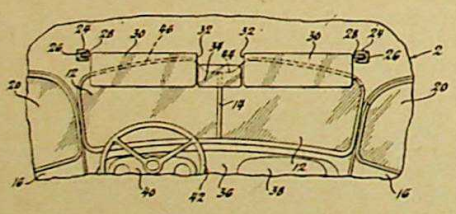
a glass, a plurality of spaced narrow silvered stripes on the back of the glass, and a black stripe between each two adjacent silvered stripes, all of said stripes extending the full width of the mirror.

2,311,401
FISH GRAPPLE
Emil H. Lange, Lemont, Ill.
Application October 29, 1941, Serial No. 417,036
3 Claims. (Cl. 43—5)



1. A fish grapple comprising, a bar, a primary hook having its shank fixed to the outer end of the bar and having its bill inclined rearwardly and outwardly, a secondary hook pivoted to the bar near the outer end thereof and having its bill inclined upwardly and forwardly, an arcuate lever formed integral with the shank of the secondary hook at the pivot thereof and extending on the opposite side of the bar from the secondary hook, a rod extending along the bar and pivoted at the outer end to the free end of the lever, an elongated substantially elliptical resilient eye secured to the bar and frictionally receiving the rod to hold the secondary hook open with respect to the primary hook, and a grip secured to the rod for jerking the rod relatively to the bar to first impale the primary hook in a fish and subsequently impale the secondary hook in the fish.

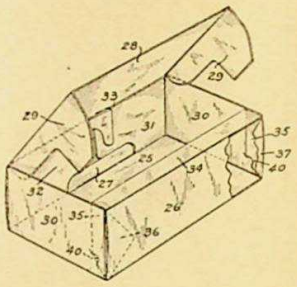
2,311,402
SUN VISOR
Carleton J. Lauer, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 5, 1941, Serial No. 396,706
1 Claim. (Cl. 296—97)



In an automotive vehicle having a windshield and a top and being provided with sun shades adjacent the windshield interiorly of the vehicle and with a rear view mirror positioned between the adjacent ends of the sun shades, and a projecting part on the top extending downwardly of the windshield into the space between the ends of the sun shades and the upper part of the mirror.

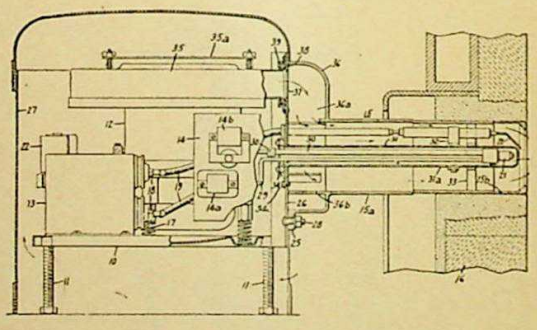
2,311,403
CARTON
Stephen Lighter, Milwaukee, Wis.
Application April 28, 1941, Serial No. 390,735
3 Claims. (Cl. 229—31)

1. A collapsible carton formed of a single blank having a bottom provided with opposite side walls and opposite end walls foldably connected with the bottom, the corresponding side edges of said end walls having inter-connectible inner side wall sections foldable inwardly therefrom and one of said side walls being foldable against said inner wall sections when connected and being provided with a main closure panel foldable over the bottom and having end flaps insertible within the carton and cooperable with the top edges of said inner wall sections to draw the adjacent outer side wall snugly against the sectional inner wall, and the opposite side edge portions of said end walls having locking tongues near said bottom and being foldably connected with the adjacent ends of the other side wall by means of three-panel triangularly foldable sections, each of said triangularly foldable sections



having one panel foldably connected with the adjacent side edge of the adjacent end wall and a second panel foldably connected with the adjacent end edge of said other side wall and with said first mentioned panel while the third panel is foldably connected with said second panel whereby said sections are foldable into triple-ply triangular formation lying flat against said other side wall within the assembled carton, and another top panel foldably connected with said other side wall and having opposite end flaps foldably connected therewith and with said third panels and adapted to interlock with said tongues.

2,311,404
CONVERSION OIL BURNER
Aldo Macchi, Belleville, N. J., assignor to General Electric Company, a corporation of New York
Application February 24, 1940, Serial No. 320,557
6 Claims. (Cl. 158—76)



1. In an oil burner unit, in combination, a drip pan having adjustable supporting legs extending from the bottom thereof, and having an upright wall at one side thereof, electric motor driven oil and air supply means removably mounted upon said pan, burner means connected with said supply means including an oil discharge nozzle and a combustion air discharge tube carried by said wall and provided with means for removably mounting said nozzle through said wall inside said tube and an independently supported removable cover having an opening with the edges thereof slidably engaging said wall for enclosing said air and oil supply means and providing a constant area air inlet thereto independently of the adjustment of said legs.

2,311,405

TREATMENT OF SYNTHETIC FILAMENT

Maurice L. Macht, Jersey City, and Malcolm M. Renfrew, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 22, 1941, Serial No. 403,550

6 Claims. (Cl. 117—139)

1. In the manufacture of brushes with filament of synthetic polymeric amides as bristles therein, the step of coating the said filament with a substance selected from the group comprising the straight-chain alcohols containing even numbers of carbon atoms between 12 and 18, inclusive.

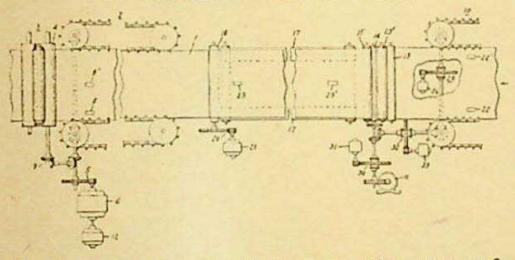
2,311,406

MEASURING LENGTHS AND CORRECTING SKEW AND BOW IN WOVEN MATERIAL

Albert P. Mansfield, Lynnfield, Mass., and Cramer W. La Pierre and William H. Janssen, Schenectady, and Milton S. Mead, Jr., Hempstead, N. Y., assignors to General Electric Company, a corporation of New York

Application March 24, 1942, Serial No. 435,958

15 Claims. (Cl. 26—51)



1. In apparatus employed in the manufacture of material woven as a continuous strip comprising a series of similar sections separated by transverse portions of predetermined length having a light characteristic which is materially different from that of those portions of the strip at opposite sides thereof, means for detecting variations in length of said sections from a predetermined standard length comprising means for moving said strip longitudinally, means for causing a plurality of light beams to emanate from said strip at fixed points spaced apart longitudinally thereof a distance equal to said standard length and means operative to give an indication in response to a time difference in the occurrence of corresponding variations in said light beams.

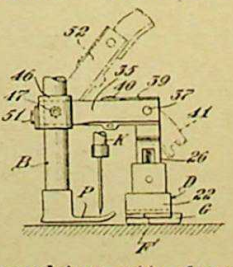
2,311,407

SEWING MACHINE ATTACHMENT

Richard J. McFalls and Rolland Herrington, Troy, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York

Application June 12, 1940, Serial No. 340,011

14 Claims. (Cl. 112—151)



3. A sewing machine attachment for use in back seaming a collar having the rear ply of its neckband already attached to a shirt body by a sewed seam, said attachment constituting a unit comprising turning means operative to turn in the marginal material of said rear ply and the shirt body, a part having provision for securing it to the presser-foot bar of the sewing machine, a lever having one end pivotally secured to said part, a stop for limiting swinging movement of the lever in one direction, a spring operative to hold said lever in either of two selected positions, said lever swinging in a vertical plane but being twisted so that its free end is in an inclined plane, an arm pivotally secured to the free end of said lever so as to swing in an inclined plane, a spring operative to hold said arm in either of two selected positions relative to the lever, and means attaching said turning means to the free end of said arm.

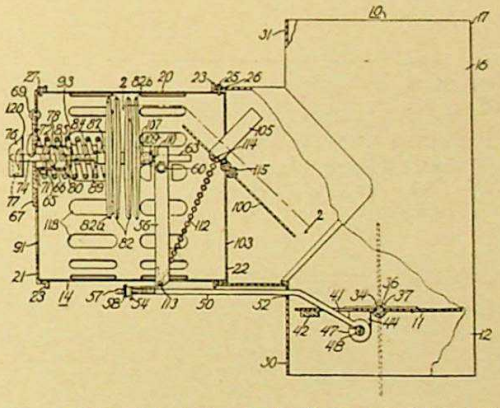
2,311,408

THERMOSTATIC DRAFT REGULATOR AND SYSTEM

Perry S. Martin, Harrisonburg, Va.

Application March 22, 1939, Serial No. 263,513

11 Claims. (Cl. 236—16)



4. In a thermostat control, a casing, an expanding and contracting wafer type thermostat within the casing, a body having a manually controlled high pitch screw connection with the casing to move the body toward or away from the thermostat, a low pitch screw connection between the thermostat and body to afford fine control of one end of the thermostat by rotating the thermostat on said screw connection while the movement of the body provides coarse adjustment of said anchored end, and a spring directly engaging the casing and the thermostat to resist rotation of the thermostat as the body is axially moved by its manual control.

11. In combination, a domestic space heater for heating a single room, an air conveying inclosure in proximity thereto but spaced laterally from the heater to avoid upward currents of heated air from the heater surface, a thermostat within said inclosure exposed to the room temperature air of the space to be heated and mechanism operated by said thermostat for regulating the draft of the space heater, including means for increasing or decreasing the flow of room temperature air through said inclosure.

2,311,409

SPEED GOVERNOR

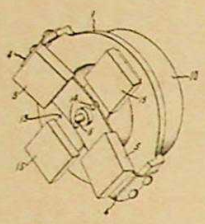
Frank W. Merrill, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application December 3, 1941, Serial No. 421,436

8 Claims. (Cl. 200—80)

1. A centrifugal speed governor of the center contact type comprising, in combination, a rotatable member, a transversely flat steel spring

mounted on said member and extending longitudinally across the axis of rotation of said member with the portion of its flat side which is in the vicinity of said axis being perpendicular to said axis, a center contact mounted on said spring concentrically with said axis, an actuating weight mounted on said spring for bending it



under the influence of centrifugal force so as to move said center contact axially, stabilizing weights mounted on said spring on opposite sides of said center contact for holding the face of said spring in the vicinity of said center contact perpendicular to said axis by virtue of their gyroscopic effect, and a fixed contact for cooperation with said center contact.

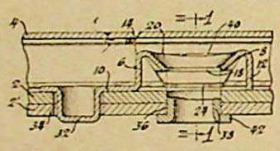
2,311,410

MOLDING RETAINING CLIP

Engelbert A. Meyer, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 6, 1940, Serial No. 364,591

11 Claims. (Cl. 189—88)



1. In a clip for securing a molding to the surface of an object, a molding retaining part, a flat tail extending away from the retaining part and being in contact with the said surface of the object covered by the molding, and cooperating means on the tail and the object to prevent movement of the clip.

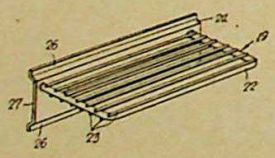
2,311,411

REFRIGERATOR SHELF

Alfred E. Nave, Newburgh, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application July 10, 1940, Serial No. 344,710

2 Claims. (Cl. 211—143)



1. A refrigerator shelf device including a slide symmetrical on both sides of its longitudinal axis, a shelf secured to said slide and spaced from said axis, said shelf including a border frame bar, a series of wires across the top of said frame, and a series of wires across the bottom of said frame, and a horizontal guide for said slide symmetrical about its longitudinal axis to slidably receive said slide in either one of two reverse positions, and having side rail sections overlapping corresponding side sections of said slide to afford a cantilever support for said shelf.

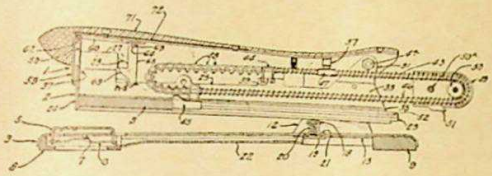
2,311,412

FEED MECHANISM FOR STAPLING MACHINES

William G. Pankonin, Chicago, Ill.

Application July 1, 1940, Serial No. 343,380

20 Claims. (Cl. 1—3)



1. In a magazine for staples, a staple follower, an endless follower rod upon which said follower is slidably mounted, a retaining bracket in said magazine through which said follower rod is slidable, a compression spring on said follower rod reacting between one side of said follower and said bracket, and a series of blocks slidably positioned on said rod between the other side of said follower and said bracket whereby relative movement of said bracket with respect to said rod in one direction will cause movement of said follower relative to said rod in an opposite direction.

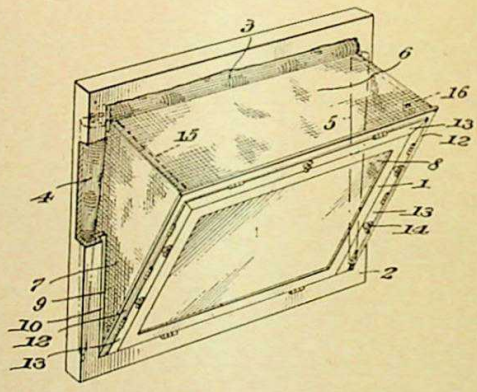
2,311,413

SCREEN FOR WINDOWS

Eric Sigfrid Persson, Malmo, Sweden

Application March 14, 1940, Serial No. 323,999

20 Claims. (Cl. 160—20)



6. In windows of the type having a sash mounted to pivot in a frame so as to form in open position at least two triangular openings and at least one rectangular opening between the frame and sash, a window screen comprising two screen members adapted to cover the triangular openings between the frame and sash, a third screen member adapted to cover the rectangular opening between the frame and sash, and a continuous cover enclosing said three screen members when in compressed position.

2,311,414

APPARATUS FOR CONCENTRATION OF MINERALS AND LIKE MATERIALS

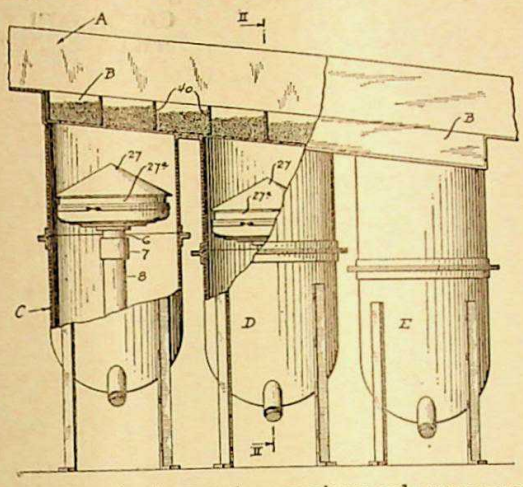
Frank C. Peterson, Oakland, Calif.

Application March 12, 1940, Serial No. 323,553

6 Claims. (Cl. 209—455)

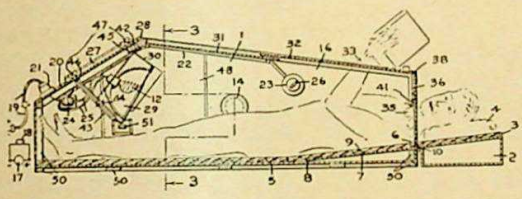
1. In a jig of the character described, a hutch having a jig bed disposed over the same, means for feeding water into the hutch and for discharging it up through the bed, a head member disposed below the bed in close proximity thereto, a cylinder secured to the head, a stationary

piston within the cylinder, and a valve for admitting and exhausting air under pressure from



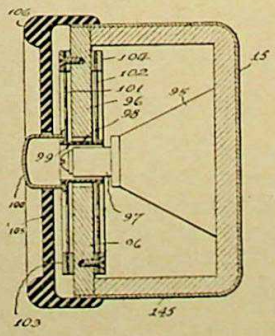
the cylinder to impart a reciprocal movement to the cylinder head.

2,311,415
ELECTRIC BATH
Roger Rouat, Sanvic, Le Havre, France; vested in the Alien Property Custodian
Application March 2, 1939, Serial No. 259,357
In France October 6, 1938
8 Claims. (Cl. 128—373)



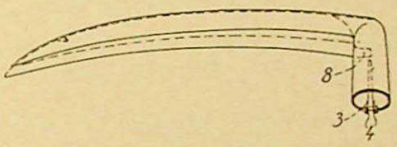
4. In an electric bath, an electric element or elements and reflectors for projecting rays onto the body of the user and a cabinet having a bottom of sufficient length and width to permit the body of the user to lie thereon in a reclining or prone position and a top door and end hinged thereto movable longitudinally of said cabinet whereby the interior of said cabinet may be reduced in size.

2,311,416
PICKUP FOR DETECTING AND TRANSLATING VIBRATIONS
Oscar G. Salb, Indianapolis, Ind., and Ralph E. Sturm, Milton, Wis.
Original application July 17, 1939, Serial No. 285,028. Divided and this application January 6, 1941, Serial No. 373,238
2 Claims. (Cl. 181—24)



1. In a dynamic type pick-up having a magnetic field and a coil positioned in said field so that vibrations of the coil produce electrical impulses through the coil, the combination comprising a portion of resilient vibration damping material having a raised chest-wall engaging rim and a recessed central web having a relatively small centrally located hole therethrough, a body contact button slightly smaller than the hole passing therethrough said button being spaced substantially from said rim and having a head of small area positioned in approximately the same plane as the crest of the rim, said button being affixed to the coil so that all vibrations of the button will produce corresponding vibrations of the coil, and resilient means for supporting the button and the coil.

2,311,417
SCYTHE
Hans Sandholt, Ullevaal Haveby, near Oslo, Norway; vested in the Alien Property Custodian
Application January 2, 1940, Serial No. 312,146
In Norway February 4, 1939
1 Claim. (Cl. 30—309)



In a scythe, a blade holder having an integral end sleeve for fastening the holder to a handle, said holder having a groove for removably holding a scythe-blade, means near the outermost end of the holder coacting with corresponding means formed on the blade for preventing longitudinal motion of the blade toward its outer end, and means for resiliently fastening the opposite end of the blade to the holder.

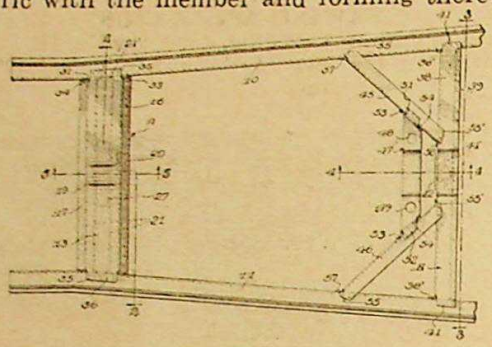
2,311,418
MALTOSE AND GALACTOSE FERMENTATIONS
Alfred S. Schultz and Lawrence Atkin, Bronx, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application September 16, 1939, Serial No. 295,272
5 Claims. (Cl. 195—37)

1. A process for increasing the fermentation rate of the saccharides maltose and galactose, which comprises effecting fermentation of the saccharide by yeast under agitation in an aqueous solution in contact during the initial fermentation period with an ambient atmosphere containing oxygen in an amount greater than that in air whereby the initial fermentation rate is accelerated.

2,311,419
SPRING SUSPENSION FOR CHASSES
Theodore Ulrich, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 16, 1939, Serial No. 299,594
15 Claims. (Cl. 280—106.5)

1. In a vehicle frame, side sill members, a cross member presenting substantially in cross section a U-shape and having a web, side walls integral with the web and angularly positioned flanges on the side walls; a transverse front spring arranged within a central portion of the member, screw means and a plate for securing

the spring to the member, and other means concentric with the member and forming therewith



a substantially double box section at its central portion for reinforcing it.

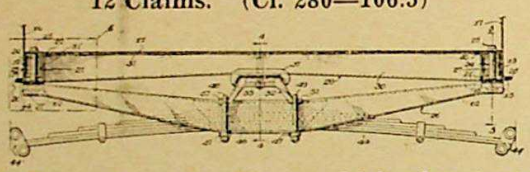
2,311,420

VEHICLE SPRING SUSPENSION SYSTEM

Theodore Ulrich, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 30, 1939, Serial No. 301,917

12 Claims. (Cl. 280—106.5)



1. In combination with a vehicle chassis construction having longitudinally extending side sills, a cross sill arranged transversely between and fastened to the side sills, and a spring assembly arranged below all of said sills; a spring carrier fastened to a central portion of the spring assembly, silencing and vibration dampening such as rubber cushioning means secured to the side sills and cross sill, and means secured to the spring carrier for operatively connecting it to the side and cross sills through the intermediary of said cushioning means.

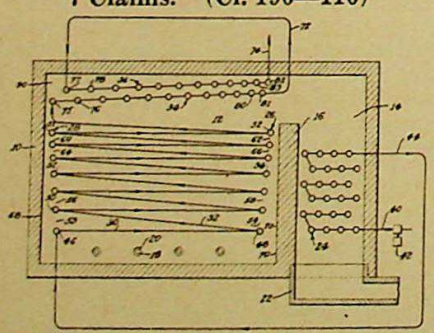
2,311,421

TREATING HYDROCARBON FLUIDS

John T. Ward, Westfield, N. J., assignors to Gasoline Products Company, Inc., Newark, N. J., a corporation of Delaware

Application April 21, 1938, Serial No. 203,303

7 Claims. (Cl. 196—116)



1. A heating apparatus adapted for heating hydrocarbon fluids to conversion temperature including a heating chamber, means for supplying heat to said heating chamber, a row of spaced horizontally extending heater tubes arranged along a boundary surface of said heating chamber, certain of said heater tubes being spaced at greater distances from each other and from said boundary surface than the rest of the heater tubes in said row.

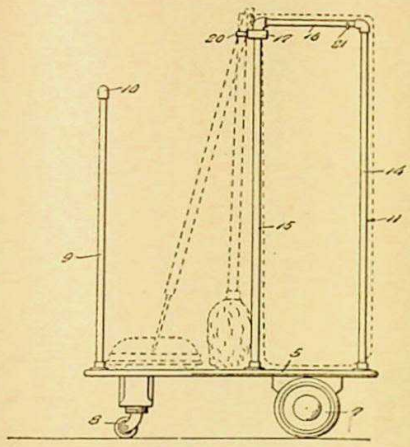
2,311,422

JANITOR'S CART

Frank E. Walling, Portland, Oreg., assignor of one-half to John W. Walling, Amity, Oreg.

Application October 21, 1941, Serial No. 415,959

1 Claim. (Cl. 280—50)



A push cart of the class described comprising an elongated wheel supported platform, a trash bag, and means to suspend said bag above said platform comprising a rack upstanding from one end of the platform and including a pair of corner uprights arising from said one end of the platform, a second similar pair of uprights spaced apart transversely of the platform intermediate the ends thereof and closer together than the corner pair, a pair of horizontal side tie members connecting the upper ends of the corner uprights with the upper ends of the second pair of uprights whereby said members diverge toward said one end of the platform, an upper cross-bar connecting the upper ends of the second pair of uprights and adapted for the suspension of articles thereto, and a pusher yoke arising from the other end of said platform, said tie members having hooks thereon for suspending the bag therefrom.

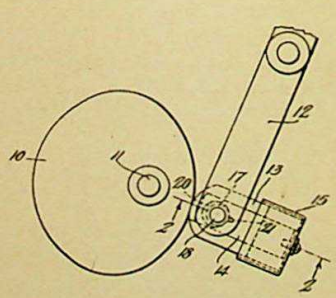
2,311,423

CAM FOLLOWER

John F. Wein, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware

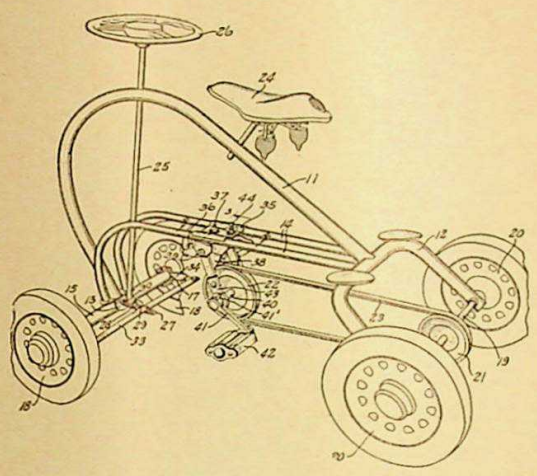
Application November 26, 1941, Serial No. 420,502

2 Claims. (Cl. 74—569)



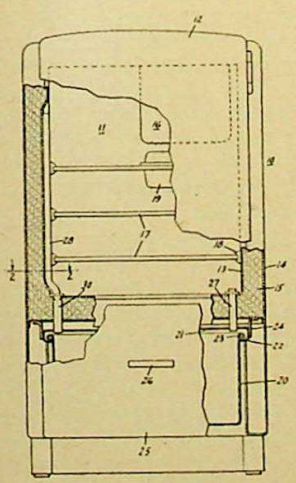
1. A cam follower supported on a movable arm and including a cam contact member of oil-impregnated wood, a yoke rigidly secured to the follower arm and a shock-absorbing member consisting of a block of resilient material interposed between said contact member and said yoke and frictionally engaging said yoke for damping oscillations of said contact member.

2,311,424
VEHICLE
Elyert J. Weller, Jr., Milwaukee, Wis.
Application January 17, 1941, Serial No. 374,855
15 Claims. (Cl. 280—261)



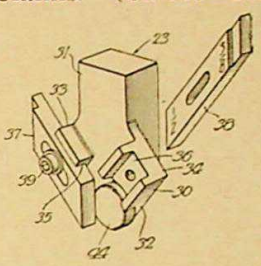
2. In a vehicle, a frame comprising a single piece of tubing bent to inverted U-shape, a transverse axle supporting member associated with each of the lower ends of said tubing, a supporting wheel associated with each end of each of said members, one of said members having a swivel connection with the adjacent end of said tubing and the other of said members being rigidly attached to the other end of the tubing, and pedal mechanism suspended beneath the medial portion of said tubing and cooperating with one set of said wheels to drive the vehicle.

2,311,425
DEHYDRATING COMPARTMENT
Albert F. Wild, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 10, 1942, Serial No. 446,430
9 Claims. (Cl. 62—89)



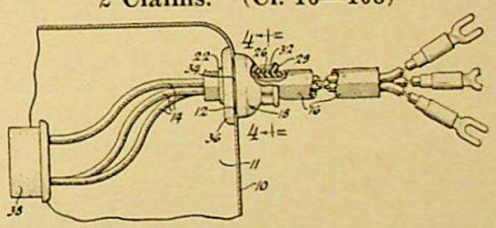
1. In a refrigerator having a refrigerated compartment and a cooling element disposed therein, a substantially air tight receptacle associated with said refrigerator cabinet, and means including a plurality of passages communicating between the interior of the compartment and the interior of the receptacle for permitting the passage of water vapor and air from the receptacle to the refrigerated compartment, said passages being sufficiently small in cross section to substantially prevent refrigeration of said receptacle.

2,311,426
SAWING APPARATUS
Leighton A. Wilkie, Libertyville, Ill.
Application October 23, 1939, Serial No. 300,737
3 Claims. (Cl. 143—161)



3. A guide for band saws comprising guide elements forming an angle, means for holding said elements spaced apart to form a band guiding slot, and a thrust roller having a side portion extending across the rear of said slot adjacent to said elements, said roller being freely rotatable and having its axis offset laterally of said slot, each of said guide elements being reversible and having its opposite end portions provided with parallel faces but of different thickness.

2,311,427
GROMMET
Robert D. Winkelmeyer, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 18, 1941, Serial No. 403,008
2 Claims. (Cl. 16—108)



1. In combination, a grommet of resilient material having an opening formed therein through which a member is adapted to extend, said grommet having a reduced portion adjacent one end with an annular ridge inside the opening at the reduced portion, and a band encircling said reduced portion, said band being adapted to be deformed to compress the reduced portion whereby said annular ridge will be forced into gripping contact with the member.

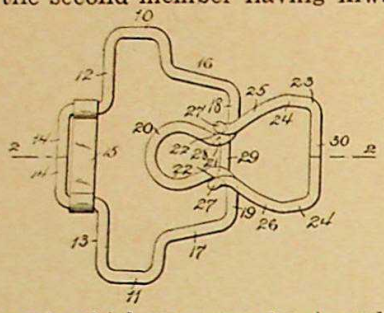
2,311,428
PHOTOGRAPHIC DEVELOPER
William H. Wood, Bedford, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application December 6, 1939, Serial No. 307,866
10 Claims. (Cl. 95—88)

1. In preparing photographic images, developing the image in the presence of piperazine, glycine, paraphenylenediamine, sodium sulphite and potassium bromide.

2,311,429
BELT CLASP
Carl E. Anderson, East Orange, N. J., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J.
Application October 18, 1941, Serial No. 415,520
2 Claims. (Cl. 24—228)

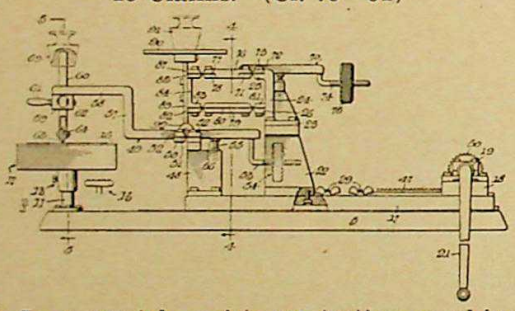
2. A clasp comprising a member having on one end a part for receiving the end of a belt and on

the other end formed into a resilient converging wire portion continuing in a bulged inwardly extending open loop, and a second member comprising a loop of a size to pass over the open loop of the first member when the members are substantially at right angles to each other, the loop of the second member having inwardly in-



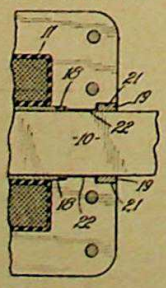
clined strands which are curved outwardly at the ends, their opposed faces being spaced apart at a distance slightly smaller than the narrow part of the open loop, the curved part extending into hooks which extend inwardly and are adapted to hook over the narrow part of the open loop, and a cross bar connecting the hook and acting as a stop to limit the movement of the second member.

2,311,430
SCRATCH RESISTANCE TESTING MACHINE
Norman J. Beno, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application January 14, 1941, Serial No. 374,382
15 Claims. (Cl. 73—51)



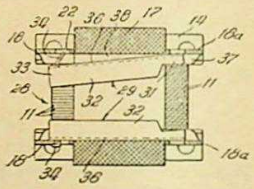
1. In a scratch resistance testing machine, a support for a coated test sample, said support having provision for holding a coating softening liquid in which the test sample can be immersed while being tested, means for maintaining the liquid at an elevated temperature, a sample scratching tool, and means for bringing about relative movement between the tool and said support for causing the tool to scratch the coated and immersed surface of said sample.

2,311,431
SOLENOID
Dean W. Davis, Oak Park, Ill.
Application September 18, 1940, Serial No. 357,208
10 Claims. (Cl. 175—341)



10. A solenoid including a substantially C-shaped magnetic frame having a pair of parallel pole faces within the opening therein, a plunger movable in said frame through said opening, a guideway for said plunger including a pair of substantially T-shaped supporting members arranged on opposite sides of said opening and secured at each end to said frame, a flanged channel member separably supported on each of said substantially T-shaped members intermediate the ends of such T-shaped members, with the flanges of each of said channel members extending inwardly to approach the flanges of the other channel member to form two walls of said guideway and each channel member and corresponding T-shaped member forming a unit with at least one of the members in each unit having a pair of extending portions thereon parallel to said flanges of said unit, and each of said pole faces being close to said plunger but having a recess therein extending transversely of the pole face, parallel to the corresponding flanges, the pole face recssss receiving said extending portions, with said extending portions being of greater thickness than the depth of said recesses to provide with the channel members flanges a slidable support of the plunger in a linear path of movement out of contact with said pole faces for all operating positions of said plunger.

2,311,432
SOLENOID
Dean W. Davis, Oak Park, Ill.
Application August 18, 1941, Serial No. 407,311
3 Claims. (Cl. 175—341)

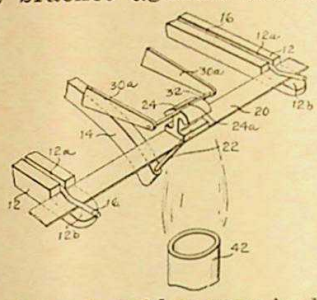


1. A solenoid having a plunger and a frame with spaced-apart portions with each portion having a recess therein, the means for supporting the plunger for movement in a straight line path in the solenoid, including a pair of one-piece guide members, each of said members having an extension at one end including two parallel sides each cut away angularly longitudinally thereof to provide a reduced width in a portion thereof and a connecting body portion at right angles to the sides, and an integral lug at the other end of each member, said extension being positioned in one of said recesses, and with said side construction permitting the original insertion of said extension therein in a direction other than a straight-line direction parallel to the plunger path of movement, and with an opposite frame portion recess having an aperture in a wall thereof, with said other end positioned in said other recess and said lug having a portion in said frame wall aperture and another portion on the outside of said other frame portion, said member being fixedly maintained at said ends in said recesses without any fastening means other than said lug in said aperture.

2,311,433
JIG
Herbert L. Dershem, near Yellow Springs, Ohio
Application July 21, 1941, Serial No. 403,390
10 Claims. (Cl. 113—99)

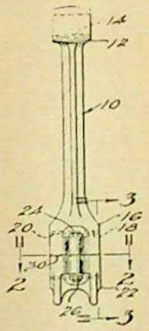
1. A jig for use by orthodontists in soldering an edgewise notched bracket upon a metallic band, the notch extending in the direction

parallel to the longitudinal axis of the band, the combination including means for supporting the ends of the band, a support engaging one side of the band near its center, and means for clamping a bracket against the band opposite



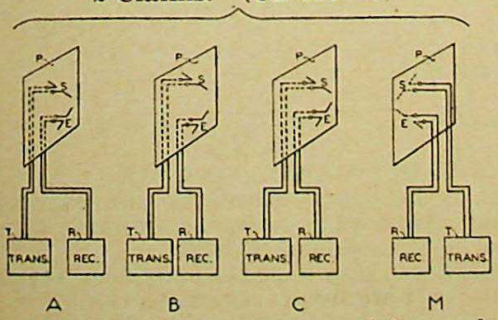
the center support, said means including a wire-like member extending parallel to the band and positioned in the notch so as to hold the bracket in position during the application of heat during the soldering operation.

2,311,434
CONNECTION
Julius Dusevoir, Dearborn, Mich., assignor to Century Motors Corporation, Dearborn, Mich., a corporation of Michigan
Application November 1, 1941, Serial No. 417,490
5 Claims. (Cl. 308—74)



1. In combination with a pair of members each having a pair of co-planar surfaces spaced from each other and arranged in opposed and contacting relationship with respect to the corresponding surfaces of the other of said members, a plurality of curved serrations of uniform cross-sectional configuration on each of said surfaces, the serrations on one surface of each member curving away from the serrations on the other surface of said member and the serrations on opposed surfaces of said members being complementary to one another arranged in interengaging relationship.

2,311,435
DUPLEX RADIO COMMUNICATION
Ernst Gerhard, Berlin, Germany; vested in the Alien Property Custodian
Application May 31, 1941, Serial No. 395,928
In Germany December 23, 1939
2 Claims. (Cl. 250—6)

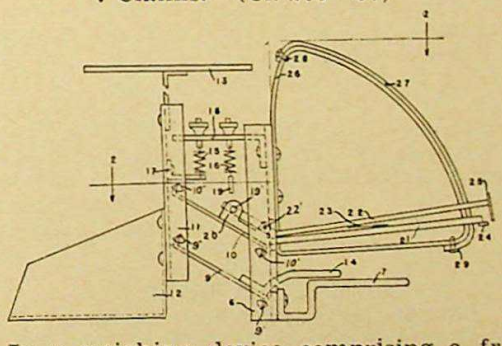


1. A duplex radio system comprising a plurality of stations greater than two, each of said stations having a transmitting antenna adapted to radiate energy polarized at an angle of 45 degrees with respect to the horizontal and a receiving antenna responsive to energy polarized at right angles to energy transmitted by said transmitting antenna, said antennae being arranged in parallel planes, the antennae of adjacent stations being identically arranged in said planes for communication to and from all of the stations of said system, the arrangement being such that by rotation of the antennae at one of said stations 180 degrees about a vertical axis through said plane duplex communication with an adjacent station may be established.

2,311,436
ELECTRICAL CONTACTS
Childress B. Gwyn, Jr., Deerfield, Ill., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York
No Drawing. Application January 22, 1942, Serial No. 427,680
5 Claims. (Cl. 200—166)

1. An electric contact member formed of an alloy containing as an essential ingredient, silver, to which has been added iron in amounts ranging from 2.5 to 50 percent.

2,311,437
WEIGHING SCALE
John H. Homrighous, Oak Park, Ill.
Application November 7, 1938, Serial No. 239,273
7 Claims. (Cl. 265—67)

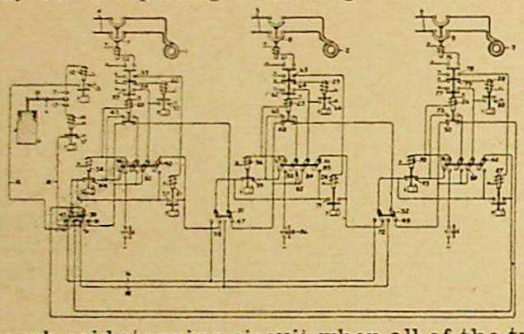


1. In a weighing device comprising a frame, a chart having weight graduations mounted on said frame, a scoop load levers pivoted to said frame and to said scoop, and providing a parallel linkage there between, a lever holding arm secured to one of said load levers and adapted to be held in a fixed position relative to said frame to render the weighing mechanism inoperative during a scooping operation, load counter-balancing means carried by said frame and resisting movement of said scoop and load levers relative to said frame, and an indicator pivoted to said frame and movable relative to the said chart to indicate the weight of material in said scoop.

2,311,438
CIRCUIT CONTROL SYSTEM
John Curtis Hoyt, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York
Application February 6, 1942, Serial No. 429,836
10 Claims. (Cl. 171—118)

10. An arrangement for effecting the automatic operation of a plurality of devices in a predetermined sequence comprising a starting circuit, means for energizing and deenergizing said starting circuit, a stopping circuit, means for energizing and deenergizing said stopping circuit, an

individual control relay for each device, means responsive to the energization of a control relay for effecting the operation of the associated device, a two-position switch individual to each device and arranged when in one of its positions to connect the associated control relay to said circuit so that the associated device is the first to be operated by the energization of said control circuit, timing means responsive to the energization of a control relay for connecting the control relay associated with the succeeding device in the predetermined sequence to said control circuit when the two-position switch individual to such succeeding device is in its other position, means responsive to the energization of a control relay for completing a holding circuit therefor



through said stopping circuit when all of the two-position switches associated with the subsequent devices in the predetermined sequence are in their other positions and all of the control relays associated with such subsequent devices are de-energized and for completing independently of said stopping circuit another holding circuit for the control relay associated with the preceding device in the predetermined sequence, individual switching means associated with each device for cutting the associated device out of said predetermined sequence without effecting the sequential operation of the other devices, and means for stopping and starting each cut out device independently of the conditions of the other devices remaining in the predetermined sequence.

2,311,439

FLASHLIGHT DEVICE

Stanley Iwanowicz, Detroit, Mich.

Application January 17, 1942, Serial No. 427,138

1 Claim. (Cl. 240—6.46)

A flash-light device adapted for use with an implement having an opaque shank, comprising a single piece of transparent material having at one end a central cavity for receiving said shank and at the other end a cavity for receiving a light bulb, a reflector in front of the filament of said bulb for projecting the rays therefrom outwardly and rearwardly from said shank, an annular reflector behind said filament adapted to receive said rays and to project them in an annular beam around and beyond said shank, and reflector means proximate said implement for deflecting said rays into the operative area thereof, whereby all of said rays are utilizable in said area.

2,311,440

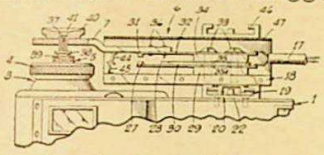
CAMERA AND LIGHT SYNCHRONIZER

Irving Jacobson, Los Angeles, Calif., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Application May 9, 1938, Serial No. 206,842

11 Claims. (Cl. 67—29)

8. A readily attachable shutter and photoflash synchronizing device for cameras having a shutter trigger on the camera case and a viewfinder clip adjacent thereto comprising: switch mechanism including a pair of contacts and having means receivable in said viewfinder clip for quickly and readily attaching the same on the camera case in a predetermined fixed position, a shutter trigger actuating element in operating alignment with said shutter trigger when said



switch mechanism is in said predetermined fixed position, means comprising a manually operable member for closing said contacts and operating said element, and means for adjusting said element and said contacts relative to each other, and means resisting movement of said member but releasable therefrom when said member arrives at a predetermined position, whereby said shutter trigger is positively actuated despite variation of manual force applied to said member.

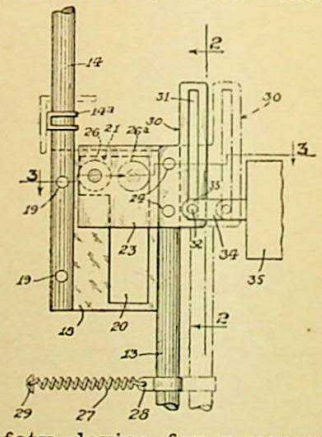
2,311,441

SAFETY DEVICE FOR PRESSES AND THE LIKE

Lloyd D. James, Seymour, Conn.

Application November 1, 1941, Serial No. 417,425

6 Claims. (Cl. 192—130)



1. In a safety device for a press or the like, having a pedal and means controlled thereby, an operative rod therebetween including a member carrying an inverted L shaped slot and a second member having means projecting into said slot, normally lying in the horizontal leg thereof and forming a normally positive linkage adapted to transmit motion from said pedal to said means, electrically actuated means for shifting said second member to bring its means into the vertical leg of said slot, thereby introducing a lost motion in said linkage to prevent motion from being transmitted to said means from said pedal, a beam of light traversing the operative zone of said press, and control means including a photo-electric cell for energizing said electrically actuated means when said cell is deprived of light from said beam.

2,311,442

REFRIGERATOR JACK

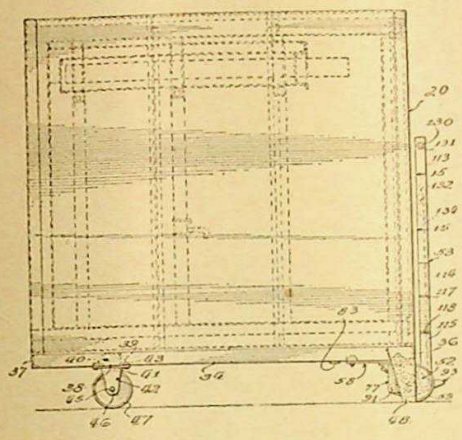
Charles S. Johnston, Glencoe, Ill., assignor to Transportation Specialties Company, Chicago, Ill., a corporation of Illinois

Application May 8, 1941, Serial No. 392,513

27 Claims. (Cl. 280—46)

1. In a portable refrigerator unit, the com-

bination of a refrigerator provided with wheels for supporting one side of the refrigerator and with legs for supporting the other side, with a jack unit slidably mounted on said refrigerator unit, said jack unit including a jack, wheels for supporting the jack, and a handle for actuating



the jack, said refrigerator unit having guide means extending along its bottom for slidably supporting the jack, and stop means carried by said guide means and adapted to engage a part of said jack, whereby the jack is prevented from sliding when it is brought into lifting relation with said refrigerator unit.

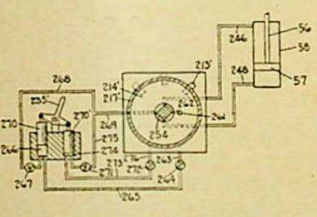
2,311,443

HYDRAULIC APPARATUS

Raymond W. Keeler, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio

Original application July 27, 1935, Serial No. 33,543, now Patent No. 2,171,255, dated August 29, 1939. Divided and this application February 23, 1939, Serial No. 257,814

1 Claim. (Cl. 60—52)



As an article of manufacture, a base having a pair of pump cylinder receiving openings adjacent an edge thereof, a valve receiving recess extending entirely through the approximate center of the bottom of the base, horizontal intersecting straight line bores in said base connecting said pump cylinder receiving openings, an additional horizontal straight line bore through said recess and connected to each of said first-named horizontal bores, each of the said bores being formed from without said base inwardly, screw plugs for closing the outer ends of said bores at the outer sides of said base, a screw plug for closing the bottom of the valve recess, a bore from the top of said base to the inner end of said additional bore, a fourth straight line horizontal bore from without said base through said recess, another screw plug for closing the outer end of said fourth bore at the outer side of said base, and a pair of horizontal straight line bores from outside of said base to said fourth bore on opposite sides of said recess, the outer ends of said last-named bores being screw-threaded to receive supply pipe connections leading to a motor, the bore from the top of the base serving as a drain opening for liquid returned from such motor.

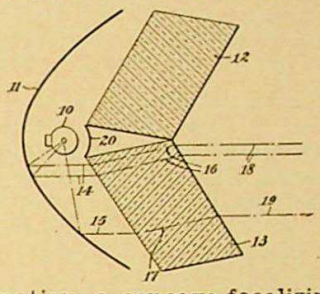
2,311,444

LIGHT PROJECTING DEVICE

Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 2, 1940, Serial No. 312,081

1 Claim. (Cl. 240—41.3)



In combination, a concave focalizing reflector, a light source located substantially at the focus thereof, two plane refractors, each having oppositely parallel faces, located in front of and diverging outwardly from said light source, said refractors meeting in a line perpendicular to the longitudinal axis of said reflector, the adjoining lower face of the upper refractor and the upper face of the lower refractor forming an acute angle facing said light source and bisected by the axis of the reflector, the two front faces of said refractors forming an obtuse angle bisected by said axis, and a curved reflector centered on and facing said light source and disposed within the acute angle formed by said refractors.

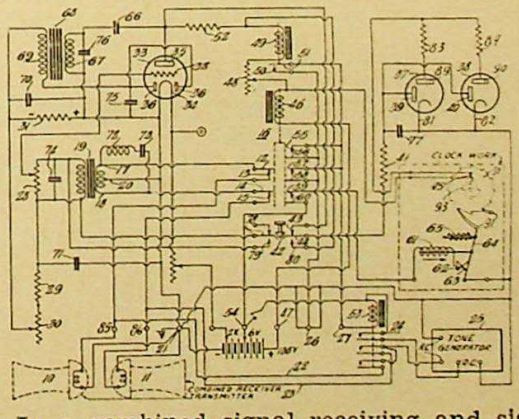
2,311,445

SOUND OPERATED CONTROL SYSTEM

Maxwell A. Kerr, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 31, 1939, Serial No. 276,684

3 Claims. (Cl. 177—352)



1. In a combined signal receiving and signal transmitting system, the combination of an electro-acoustical converter adapted to convert sound into alternating current and vice versa, means for producing a potential in response to alternating current, means normally coupling said converter to said potential producing means whereby said potential producing means is responsive to the alternating current output of said converter, an alternating current signal generator, a control device coupled to said potential producing means and responsive to potentials produced thereby, said control device having a normally closed output circuit including a relay which is energized by the output of said control device when the potential applied to said device by said potential producing means has reached a predetermined value, means for maintaining said relay energized independently of the operating condition of said

potential producing means, switching mechanism operable in response to said relay to disconnect said converter from said potential producing means and to connect said converter to said generator upon energization of said relay, and means rendered operative upon energization of said relay for restoring said relay after a predetermined time interval to effect operation of said switching mechanism to disconnect said converter from said generator and reconnect it to said potential producing means.

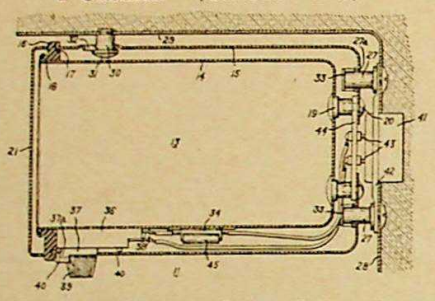
2,311,446

REFRIGERATOR CABINET

James L. Knight, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application June 28, 1941, Serial No. 400,189

4 Claims. (Cl. 312—112)



1. In a compartment of a refrigerator or the like, a removable auxiliary receptacle, and means for supporting said receptacle in said compartment, said receptacle having an opening in a wall thereof, a first member on a wall of the compartment extending through said opening, said receptacle having a second opening, a second member on a wall of said compartment extending into said second opening, means carried on the inside surface of the wall of said receptacle adjacent said first-mentioned opening and engaging said first member for biasing said receptacle into frictional engagement with said second member for supporting said receptacle in place.

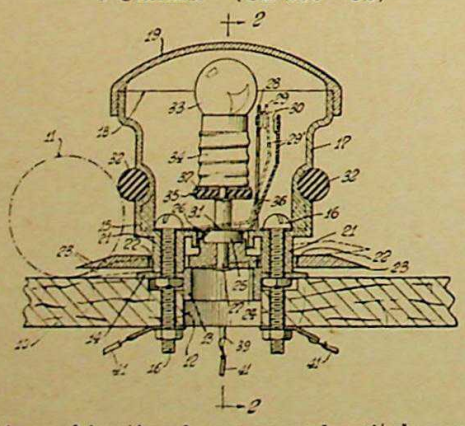
2,311,447

CONTACT SWITCH FOR BALL ROLLING GAMES

Jerry C. Koci, Chicago, Ill., assignor, by mesne assignments, to American Molded Products Co., Chicago, Ill., a corporation of Illinois

Application July 29, 1940, Serial No. 348,113

6 Claims. (Cl. 200—52)



1. A combination bumper and switch comprising a bumper structure providing a housing including a base, a switch structure totally enclosed within the housing and including engageable contact elements, a member loosely carried on said base and free to tilt in various directions relative to said base upon engagement with a rolling object, and means operable by and incident to such tilting movement of said member for actuating said switch structure for effecting engagement of said contact elements.

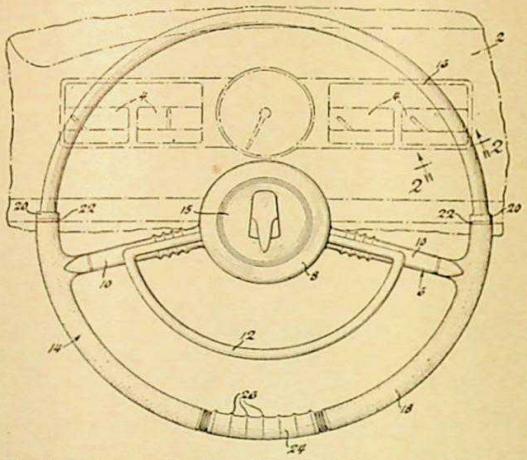
2,311,448

STEERING WHEEL

William F. Lange, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 9, 1940, Serial No. 369,176

2 Claims. (Cl. 74—552)



1. A steering wheel adapted for application to an automotive vehicle which has an instrument panel and comprising a rigid rim extending continuously 360 degrees in circumference, said rim having two approximately semicircular parts of different cross-sectional area, a hub, and spokes extending from said hub to that part of said rim having the larger cross-sectional area, the cross-sectional area of one of said parts being substantially smaller than that of the other part and the change in cross-sectional area at the places of junction between the two parts being abrupt, whereby shoulders are provided to enable the operator's hand better to grip the rim and whereby obstruction between the operator's eyes and the instrument panel may be minimized.

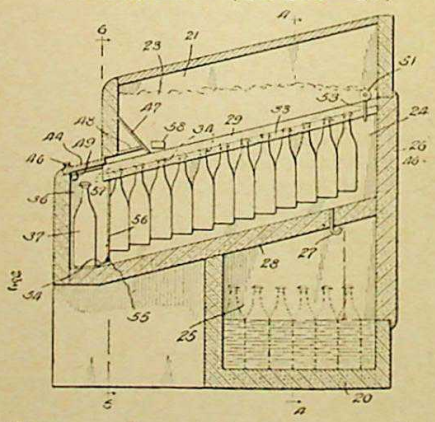
2,311,449

BOTTLE COOLING AND VENDING MEANS

Thomas F. Lilly, Memphis, Tenn.

Application April 10, 1940, Serial No. 328,964

20 Claims. (Cl. 312—36)

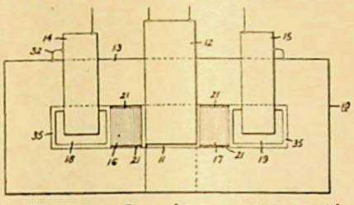


1. Cooling and vending means for bottled beverages and the like comprising a compartment for ice, an inclined floor for said compartment, means in connection with said floor providing covered runways for supporting bottles by their neck portions, and means between said runways for directing the water from the melting ice in said compartment against said bottles below their necks.

2,311,450
TRANSFORMER

Myrle O. Marsh, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application April 23, 1940, Serial No. 331,146
5 Claims. (Cl. 175—356)

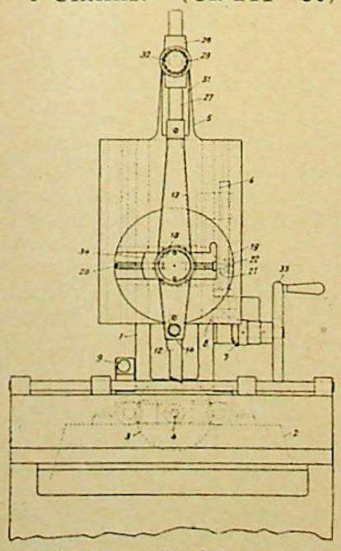


1. A transformer having a magnetic core structure, a pair of secondary winding portions, a primary winding disposed between said secondary winding portions, said core structure including magnetic shunts arranged between said primary winding and each of said secondary winding portions defining individual windows for each of said windings, the cross-section of said secondary winding portions being substantially smaller than the corresponding window, spacer means having inwardly projecting means contacting only the opposite sides of said secondary winding portions adjacent the innermost parts thereof and the magnetic core structure for centrally positioning said secondary winding portions in the corresponding windows, said spacer means being arranged within the windows and spaced from the remaining parts of said secondary winding portions within the windows, and insulating compound completely filling the remaining space between said secondary winding portions and said spacer means and said core structure.

2,311,451
MORTISING MACHINE

Gottfried Maurer, Zurich, Switzerland, assignor to A. Müller & Cie., Maschinenfabrik und Eisengiesserei, Aktiengesellschaft, Brugg, Switzerland, a joint-stock company of Switzerland

Application August 25, 1941, Serial No. 408,265
In Switzerland October 22, 1940
6 Claims. (Cl. 144—80)

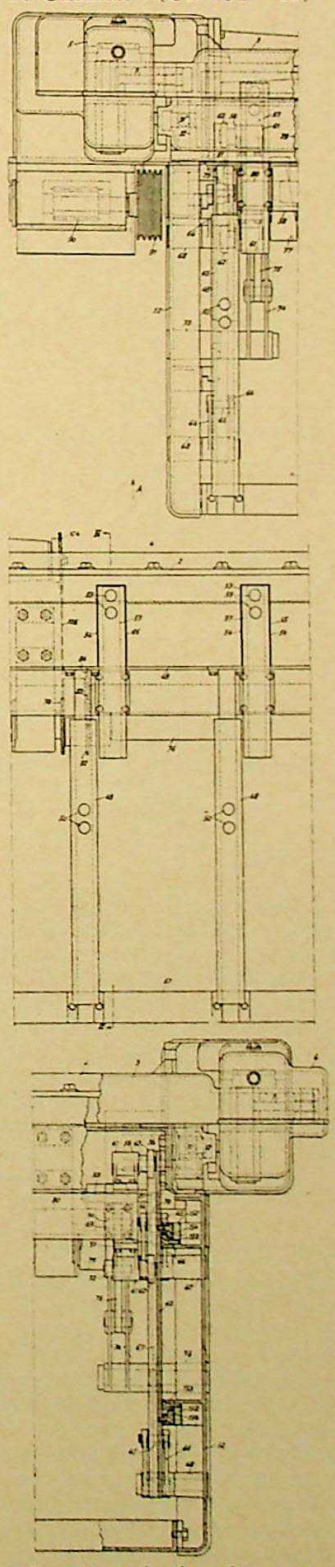


1. In a mortising machine, a support, a first bearing movably arranged on said support, a rotatable disc pivotally mounted on said support, a slide slidably mounted on said rotatable disc, a second bearing attached to said slide, an oscillating tool carrier mounted on said first and on said second bearing, and a threaded spindle adapted to cooperate with said slide for changing the distance between said second bearing and the axis of rotation of said rotatable disc.

2,311,452
CHARGING DEVICE

Gottfried Maurer, Zurich, Switzerland, assignor to A. Müller & Cie., Maschinenfabrik und Eisengiesserei, Aktiengesellschaft, Brugg, Switzerland, a joint-stock company of Switzerland

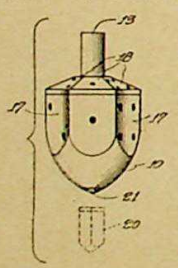
Application April 1, 1942, Serial No. 437,292
In Germany February 22, 1941
17 Claims. (Cl. 164—48)



16. In a charging device for a machine tool,

a frame, a stationary service table on said frame, adapted to receive work pieces, first rails mounted on said frame with allowance for vertical movement, a first support comprising first rollers, movably arranged on said first rails by means of said first rollers and adapted to take the work pieces over from said service table and to lead them to a working place, a drive adapted to move said first support from said service table towards the working place and from the working place towards said service table, a first cam disc adapted to move said first rails in such a way that the supporting surface of said first support changes from a position below the supporting surface of said service table into a position above the supporting surface of said service table and vice versa, a pressure bar to hold the work pieces fast on said support when they are led towards the working place, second rails mounted on said frame with allowance for vertical movement, a second support comprising second rollers, movably arranged on said second rails, said second support carrying said pressure bar and being connected in such a way with said first movable support that both supports carry out the same forward and backward motion at the same time, their vertical motion however, independent of each other, a second cam disc adapted to move said second rails vertically, and another automatically controlled pressure bar adapted to hold the work pieces fast on said service table until they are taken over by said support.

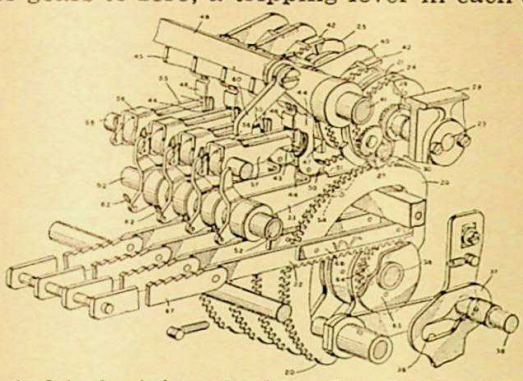
2,311,453
GAME
John L. McKeown, Winnetka, Ill.
Application June 22, 1940, Serial No. 341,845
4 Claims. (Cl. 273—147)



1. In combination a flat-sided top having its sides distinctively marked and provided with an internal chamber; a magnet arranged in said chamber; and a flat-sided projectile releasably held in said top, there being a flat-sided bore leading from the bottom of said chamber through the spinning point of the top body, and said projectile fitting into said bore and releasably held therein by said magnet, the sides of said projectile having markings identical with those on the sides of said top body.

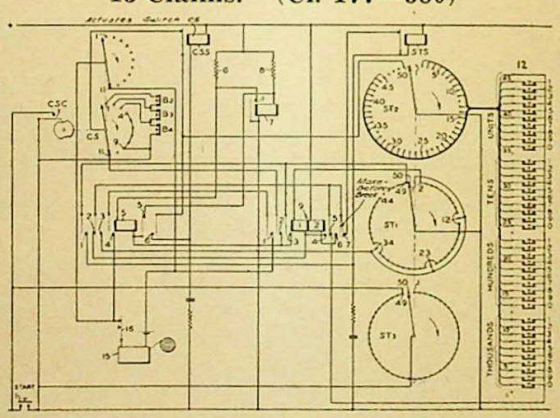
2,311,454
ACCOUNTING MACHINE
Harold P. Mixer, Rockville Centre, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application April 25, 1936, Serial No. 76,492, now Patent No. 2,214,029, dated September 10, 1940. Divided and this application May 15, 1940, Serial No. 335,214
4 Claims. (Cl. 235—144)

1. In a computing machine of the class described, having an accumulator with a tens carry mechanism of the crawl type, an accumulator gear and an accumulator wheel for each denominational order, a zero stop lug on each accumulator wheel, a stop arm operable to engage said zero stop lug when the accumulator is being set to zero, means for retaining the stop arm in non-engaging position only when the accumulator wheel stands between the nine and zero position, means tending to restore the accumulator gears to zero, a tripping lever in each order



adapted to be tripped when the stop arm in that order is moved to engaging position, a release latch in each order controlled by the tripping lever for releasing the stop arm in the next higher order, and a locking mechanism controlled by the stop arm for holding the restoring means until the stop arm is moved to the engaging position.

2,311,455
TRANSMITTER
Manfred W. Muehter, Nutley, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey
Application June 15, 1940, Serial No. 340,696
13 Claims. (Cl. 177—380)



7. In an impulse code transmitter for transmitting impulses over an electric circuit, a stepping switch having a series of bank contacts, a stepping magnet, an interrupter contact controlled by said magnet, digit keys connected to the respective contacts of the stepping switch and to each other which when operated set up a code to be transmitted, switching contacts for establishing a circuit through the stepping switch, the keys, the stepping magnet and its interrupter contact whereby the stepping switch is initially self-stepping through each closed digit key, a switching relay connected in shunt to the stepping switch and the digit keys which becomes actuated and locked when the stepping switch establishes a connection to an open digit key, and which actuates the said switching contacts to break the self-stepping circuit, an impulse generator, a second stepping circuit including switching contacts in series with the stepping magnet of the stepping switch and controlled by the impulse generator and the switching relay whereby the stepping switch steps and counts

successive impulses from the generator, a transmitting circuit including contacts controlled by the impulse generator and the switching relay whereby counted impulses are transmitted as a code digit and a second stepping switch controlled by the same stepping magnet for actuating the switching relay at the end of the digit which in turn actuates its contact in the second stepping circuit and its contact in the transmission circuit to terminate transmission of the digit.

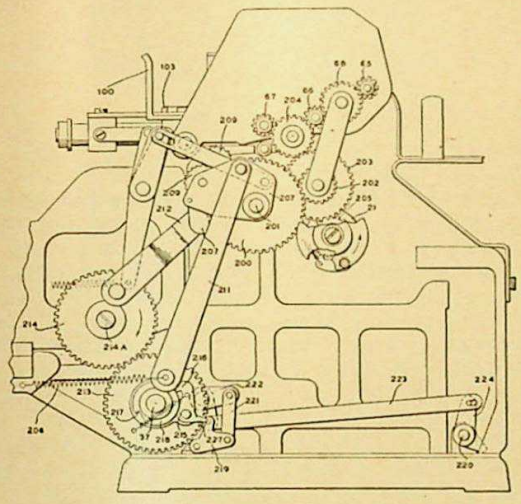
2,311,456

PAPER FEED MECHANISM

John Mueller, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application October 15, 1941, Serial No. 415,078

2 Claims. (Cl. 197—127)



1. A paper feed mechanism which comprises a platen, a gear associated with said platen and adapted to be driven to advance the platen, a pair of oscillatable members associated with said driven gear, a pair of driving gears, links connected to said respective members and eccentrically connected to said driving gears with differing degrees of eccentricity, and means on the respective members and engaging the periphery of the driven gear to move the driven gear only when the members are moved in a given direction.

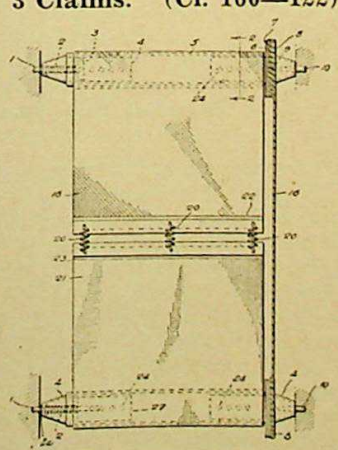
2,311,457

RADIATOR PROTECTOR

John Muhr, Osborn, Ohio

Application January 28, 1939, Serial No. 253,323

3 Claims. (Cl. 160—122)



1. An adjustable screen assembly adapted to be removably attached to a mounting by the use of a pair of parallel rolls adjusted in unison, each of said rolls including the combination of a tubular body member having a pair of diametrically disposed apertures adjacent each end thereof with a pair of tubular end members one for each end of the tubular body member, each of said end members being provided with a plurality of apertures, a selected aperture in each end member registering with an adjacent aperture in the tubular body member, the length of the roll depending upon which apertures are selected, means extending through said registering apertures to hold the end member in adjusted position with respect to the tubular body member, and a pair of pintles, one for each of the end members, projecting beyond the end members, said pintles functioning as bearings for the roll.

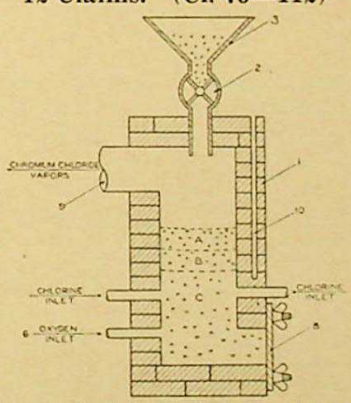
2,311,458

CHLORINATION OF CHROMIUM BEARING MATERIALS

Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application February 8, 1941, Serial No. 378,083

12 Claims. (Cl. 75—112)



1. A method of chlorinating a chromium bearing material which comprises forming a bed of said material, maintaining the temperature within at least a portion of said bed sufficiently high to cause vaporization of a chloride of chromium, introducing a chlorination agent into a lower portion of said bed and withdrawing a vaporized chloride of chromium from an upper portion thereof, regulating the rate of introduction of chlorine to maintain the hottest portion of the ore bed at least about 6 inches below the point at which the said vaporized chloride is withdrawn and regulating the rate of introduction of chlorine and chromium bearing material such that sufficient heat is evolved to maintain a temperature within the bed above 900° C. without externally heating the reactor in which the bed is undergoing chlorination.

2,311,459

CHLORINATION OF CHROMIUM BEARING MATERIALS

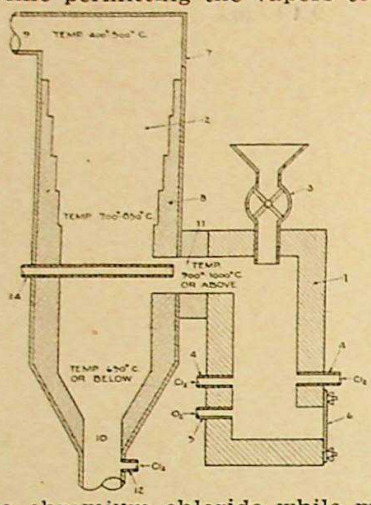
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 13, 1941, Serial No. 414,754

4 Claims. (Cl. 75—112)

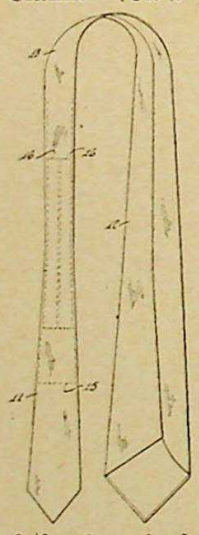
1. A method which comprises chlorinating an iron chromium bearing material at a temperature sufficiently high to form and vaporize iron chloride and a chromium chloride, removing the vapors from the zone of chlorination, thereafter

adding a substantial quantity of a gas which is substantially nonreactive to the chromium chloride to the vapors and passing the vapors upwardly while permitting the vapors to cool and



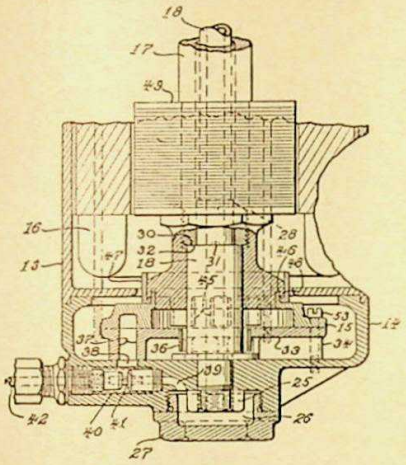
condense a chromium chloride while maintaining the iron chloride largely in the vapor state and permitting the condensed chloride to fall out of the upwardly passing vapor stream.

2,311,460
NECKTIE
Valentine Naftali, Pelham Manor, N. Y.
Application May 4, 1939, Serial No. 271,640
1 Claim. (Cl. 2—146)



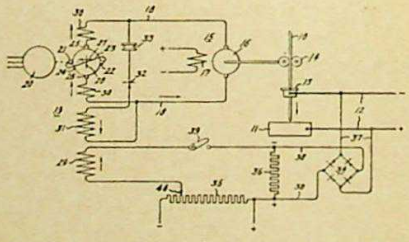
In a necktie of the four-in-hand type, in combination, a tubular outer fabric casing and a lining within said casing, said casing having a knot forming portion in the small end of the tie, a cooperating portion therefor in the large end of the tie, and an interconnecting neckband portion, stiffening members carried by said lining and disposed in the said knot forming portion of the small end of the tie, said stiffening members being secured on opposite sides of approximately the longitudinal axis of the lining leaving a relatively narrow space between said stiffening members, said space being unstiffened and serving as a fold line to automatically fold the lining longitudinally substantially in half to provide a folded portion in the small end of the tie when the said tie is made up into a knot, the said folded portion cooperating with a fold in the said large end of the tie, the said stiffening members being resistant to crushing in a transverse direction to maintain the finished knot against flattening or crushing from front to back.

2,311,461
PUMP STRUCTURE FOR OIL BURNERS
Richard E. Nest, Baltimore, Md., assignor to Claude W. Schaefer, doing business as General Oil Burner Company, Baltimore, Md.
Application April 14, 1941, Serial No. 388,432
15 Claims. (Cl. 103—87)



1. A vertical rotary liquid fuel feeding apparatus comprising a motor stator, a casing having a fuel chamber therein, a pump housing in said chamber, a tubular shaft mounted in the bottom of said chamber and passing upwardly through said housing, the housing and casing having a continuous passage therein leading to the lower end of the tubular shaft, a fuel receiving assembly including a hollow shaft rotatably mounted on said tubular shaft, a motor rotor on said tubular shaft coacting with said stator to rotate said hollow shaft, a centrifugal pump runner on the lower end of said hollow shaft, operating in said housing to draw fuel axially thereinto from one side and means to seal the other side of said runner against the passage of fuel, said runner forcing the fuel radially and through said passage and tubular shaft to said fuel receiving assembly.

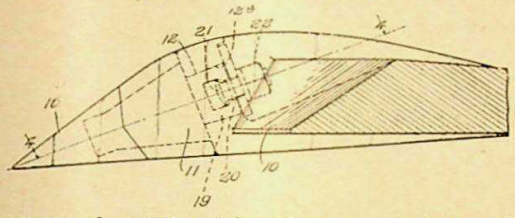
2,311,462
CONTROL APPARATUS
Frank C. Neal, Jr., Dallas, Tex., assignor to General Electric Company, a corporation of New York
Application October 16, 1942, Serial No. 462,247
11 Claims. (Cl. 314—71)



1. Apparatus comprising a circuit, means for maintaining a desired characteristic of said circuit, said means exerting a controlling effect which varies with the magnitude of the voltage applied thereto and is in opposite directions for voltages of opposite polarity, means responsive to departures in either direction from said desired characteristic of said circuit for reversing the polarity of the voltage applied to said first mentioned means and for controlling its magnitude at either polarity in accordance with the departure from said desired characteristic, and means responsive only to that polarity of said

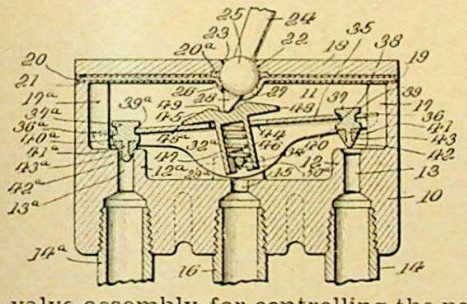
voltage which occurs upon departures in one direction only from said desired characteristic of said circuit for limiting said voltage of said polarity, said means including a polarity responsive means which limits control current flow to one direction only through a voltage dependent impedance which very rapidly decreases and increases its value at a greater rate than the increase and decrease of voltage applied thereto.

2,311,463
BUCKET TOOTH
John W. Page, Chicago, Ill.
Application December 12, 1941, Serial No. 422,779
2 Claims. (Cl. 37—142)



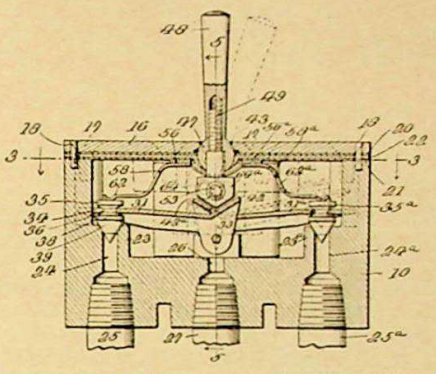
2. A tooth support having a socket therein; a detachable tooth point with two spaced tongues adapted to enter said socket, the inner ends of said tongues being thickened and provided with beveled shoulders on their inner faces; and wedging means adapted to engage said beveled shoulders to draw said tongues into said socket and spread the same to tightly engage the inner faces of said socket, said wedging means including a bolt carried by the support, said bolt having a head with a part engaging the beveled shoulders of the tongues.

2,311,464
VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application December 13, 1939, Serial No. 309,083
16 Claims. (Cl. 277—20)



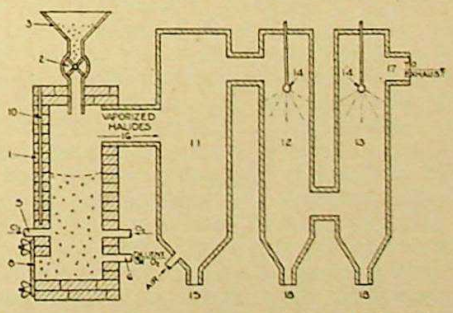
1. A valve assembly for controlling the passage of fluid, comprising a valve casing having a plurality of ports communicating therewith, a rocker arm pivotally mounted within said casing and having a central opening therein, a pair of valve members for controlling the passage of fluid through at least a pair of said ports, said valve members being loosely carried adjacent the ends of said rocker arm whereby each valve member is automatically centered with respect to its corresponding port when closed, a valve operating member extending through the opening in said rocker and having laterally extending flanges engageable therewith, means for pivotally mounting said operating member within said valve casing, spring means for normally urging said operating member away from its pivotal mounting whereby to cause one of said flanges to rapidly engage said rocker arm whereby to effect a snap movement of the rocker arm and the valve members carried thereby, and handle means for effecting movement of said operating member toward a central position.

2,311,465
VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application December 26, 1940, Serial No. 371,806
9 Claims. (Cl. 277—20)



1. A valve assembly for controlling the passage of fluid, comprising a valve casing having a plurality of ports communicating therewith, a plurality of valve members movably mounted within said casing for controlling the passage of fluid through at least a pair of said ports, a bracket member mounted within said casing and having recesses formed in at least one side wall thereof, a single operating lever extending externally of said casing for shifting said valve members whereby to control the passage of fluid through the ports, and a spring-pressed detent carried by said operating lever within the casing and adapted to cooperate with the recesses in said bracket member whereby to releasably hold the lever in any one of the several positions to which it is shifted.

2,311,466
CHLORINATION OF METAL BEARING MATERIALS
Alphonse Pechukas, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 15, 1941, Serial No. 383,577
18 Claims. (Cl. 75—111)

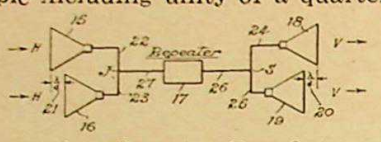


1. A method of removing iron chloride from a vaporized mixture of iron chloride and tin tetrachloride which comprises condensing iron chloride from the mixture and washing the resulting vapor containing at least a portion of the iron chloride with liquid tin tetrachloride to precipitate solid iron chloride.

2,311,467
RADIO RELAYING SYSTEM
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 27, 1941, Serial No. 412,633
8 Claims. (Cl. 250—15)

1. In a radio relay system, a repeater station having a unidirectional wave directive structure

composed of a pair of horn antenna elements positioned for effective operation in the same direction, said horn elements being spaced one from another along the line of said direction a distance equal to an odd multiple including unity of a quarter of the operating wavelength, connections differing by an electrical length of an odd multiple including unity of a quarter of the



operating wavelength extending from said elements to the input of an amplifier system to produce a cophasal relationship for waves arriving from said direction, and a similar unidirectional wave directive structure coupled by connections arranged similarly to said first connections to the output of said amplifier system and positioned for effective operation in a substantially opposite direction than said first structure.

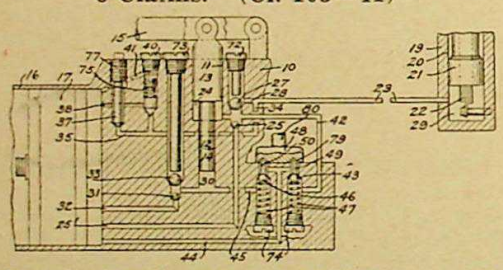
2,311,468

HYDRAULIC PUMP ASSEMBLAGE

Edward M. Pfauser, Elm Grove, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin

Original application October 21, 1939, Serial No. 300,501. Divided and this application August 6, 1941, Serial No. 405,664

6 Claims. (Cl. 103—41)



1. In a hydraulic pump, a casing having alined concentric bores of different diameters disposed centrally of said casing, a pair of alined pistons snugly coacting with said bores to provide independent displacement chambers of different capacity, a liquid supply reservoir for said chambers rigidly attached to said casing and projecting laterally from one end of the casing and away from said bores, a lever pivotally suspended from said casing and being swingable toward and away from said reservoir to simultaneously reciprocate said pistons, a liquid discharge and return line connected to the other end of said casing remote from said reservoir, a set of inlet and outlet valves for controlling the admission of liquid from said reservoir to each of said chambers and from said chambers to said discharge line, a liquid by-pass valve confined within said casing on one side of said bores and being operable to return liquid directly from said line to said reservoir, and a pair of control valves confined within said casing on the other side of said bores and being co-operable with said sets of inlet and outlet valves to cause either or both of said pistons to deliver liquid to said line.

2,311,469

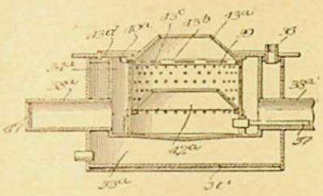
LIQUID FUEL BURNER

Ralph S. Pruitt, Anderson, S. C.

Application October 17, 1938, Serial No. 235,484

2 Claims. (Cl. 158—91)

1. A liquid fuel burner for furnaces and the like comprising a cylindrical casing, the bottom of said casing being provided with a burner pan, the bottom of said pan being provided with upwardly extending means, a perforated shell resting on the bottom of said pan and adapted to engage and be supported by said upwardly extending means below the lowermost perforations of said shell, the sides of said shell being spaced from the sides of said casing and forming therebetween an air supply chamber, means for feeding fuel in regulated amounts through said shell and upwardly extending means to the bottom of



said burner, a pilot burning baffle ring supported interiorly of the shell substantially below the top thereof and above the lowermost perforations of said shell so that said lowermost perforations will provide adequate supply of air below said ring to support combustion of a pilot flame burning on said ring, a high fire baffle ring mounted adjacent the upper end of said perforated shell, means connected with said casing for supplying air to the air chamber above the bottom of the burner pan in sufficient amounts to support combustion of the pilot or high fire flame.

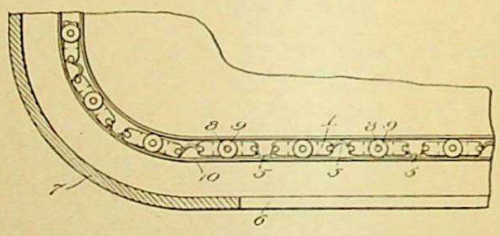
2,311,470

FLEXIBLE PANEL, DOOR, OR CLOSURE

Adolph P. Ritter, Chicago, Ill.

Application October 3, 1941, Serial No. 413,416

9 Claims. (Cl. 20—20)



1. A panel comprising slats spaced apart from each other having undercut grooves in and extending throughout their long edges, and hinge connections between adjacent slats comprising strips enlarged at their long edges and having such enlarged portions engaged in said grooves; the strips being resilient so that each is bendable to produce relative swinging movements between the slats connected thereby, while tending to unbend and reverse such relative swinging movements.

2,311,471

PRINTING INTERPRETER

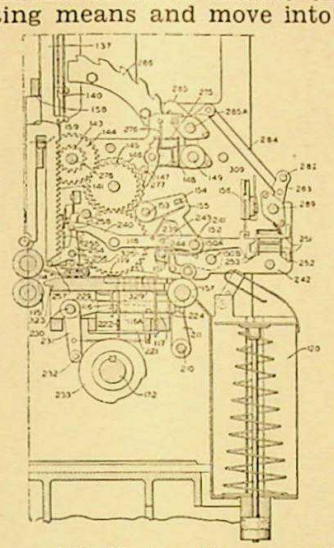
Robert W. Ritzert, Brooklyn, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application April 6, 1940, Serial No. 328,337

5 Claims. (Cl. 101—96)

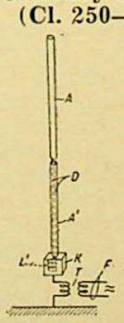
1. In an interpreting machine, the combination of a record sensing mechanism, a decoding mechanism, a printing mechanism, a connecting means for connecting the record sensing means and the decoding means, a card printing chamber for printing a punched data card with the data sensed from the card, a plurality of stops in the printing chamber for positioning the card for printing, selection means for printing one area of the card with one half the sensed data

or printing another area of the card with another half of the sensed data, said selection means comprising a mechanical shifting mechanism adapted to shift the upper portion of the connecting means so as to disable one half of said connecting means and move into engaging



relation a second half of said connecting means, said shifting mechanism also comprising a means for changing stops in the card printing chamber whereby one half of the sensed data is printed in one card area and the other half of said data is printed in another card area.

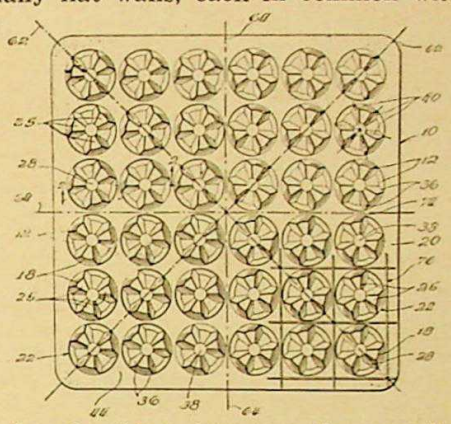
2,311,472
ANTENNA
Hans Otto Roosenstein, Berlin, Germany; vested in the Alien Property Custodian
Application June 4, 1941, Serial No. 396,484
In Germany January 31, 1940
8 Claims. (Cl. 250—33)



6. An antenna including a pair of coaxially arranged radiator sections, said sections being connected together at their adjacent ends by a series impedance, said series impedance being located at one end of said antenna within a shielding box connected to said one end.

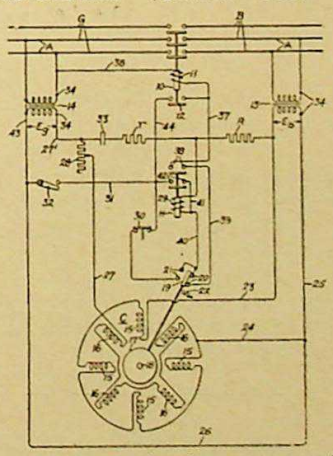
2,311,473
SHIPPING CONTAINER
Louis Schwartzberg, Chicago, Ill., assignor, by direct and mesne assignments, to Carl W. Johnson, Glencoe, Ill., as trustee
Application December 8, 1937, Serial No. 178,644
2 Claims. (Cl. 217—26)

1. In a cushion for an egg crate, a member having groups of domes extending downwardly and upwardly, each group of domes being within the confines of the downward projection of the compartment allotted one egg and independent of other groups of downwardly extending domes, the downwardly extending domes resting upon the bottom of the crate and the upwardly extending domes positioning an egg centrally above said downwardly extending domes, a central part within each group of domes lying in the plane of said member, each dome having a wall sloping toward and integrally connecting with the central part, and each dome having two substantially flat walls, each in common with one



wall of each of two domes on the opposite side of said member, said downwardly extending domes being positioned radially around the center of the projection of said compartment, said downwardly extending domes spreading radially under downward pressure whereby said egg is yieldingly supported and cushioned in said crate independently of latterly adjacent eggs.

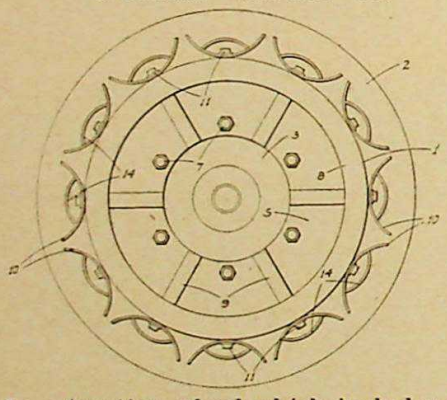
2,311,474
CONTROL APPARATUS
Harold T. Seeley, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application December 24, 1941, Serial No. 424,323
18 Claims. (Cl. 171—118)



10. An arrangement for connecting two sources of alternating electromotive force only when the frequency of one source exceeds the frequency of the other source comprising connecting means, a control circuit for effecting the connecting operation of said connecting means, means for controlling the energization of said control circuit comprising an electromagnetic device having energizing winding means and two switching means, one in series in said control circuit and another in series with said winding means, means for deriving from two corresponding electromotive forces of said sources two currents having a phase displacement exceeding the phase displacement of said two corresponding electromotive forces by a predetermined fixed amount, means for effecting the energization of said winding means and controlling said control

circuit in cooperation with said device comprising electromagnetic means having a movable member, means for actuating said member from an initial position to another position at a predetermined phase difference between said two corresponding electromotive forces and maintaining the member in said other position over a predetermined range of phase difference of said two corresponding electromotive forces and then returning the member to the initial position for a different predetermined range of phase difference of said two corresponding electromotive forces, switching means in series with said winding means and in parallel with said other switching means of said device, controlled by said movable member to effect energization of said device in accordance with the vectorial sum of said derived currents when the member is in said other position and switching means controlled by said member to effect in cooperation with said one switching means of said device the completion of said control circuit when the movable member of said electromagnetic means is in the initial position and said device is energized to close the said one switching means thereof.

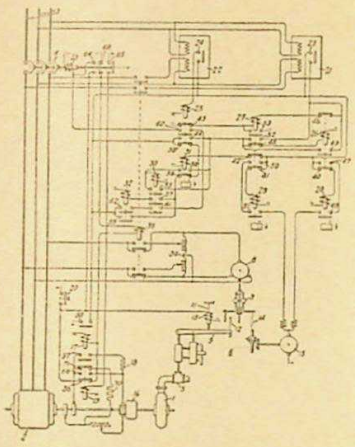
2,311,475
AUXILIARY TRACTION WHEEL
Theodore G. Schmeiser, Fresno, Calif.
Application September 19, 1941, Serial No. 411,482
3 Claims. (Cl. 301—44)



1. In a traction wheel which includes a drum and a plurality of circumferentially spaced cleats secured transversely thereto; said cleats being arcuate in cross section and disposed with their concave faces outermost, and bridge plates extending from end to end of the cleats and connected between the sides thereof some distance radially inwardly of their edges.

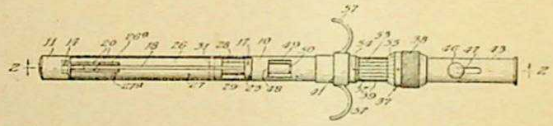
2,311,476
CONTROL EQUIPMENT FOR PRIME MOVER ELECTRIC GENERATING PLANTS
Harold T. Seeley, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application May 13, 1942, Serial No. 442,748
19 Claims. (Cl. 290—4)

1. In combination, two disconnected alternating current circuits, two relays, each relay having a normal position and an operated position, means controlled by the relative phase relation of the voltages of said circuits for effecting the movement of one of said relays from its normal position to its operated position only when the frequency of a predetermined one of said circuits exceeds the frequency of the other circuit and the voltages of said circuits are within a predetermined phase range and for moving the other relay from its normal position to its operated position only when the frequency of said predetermined one of said circuits is below the frequency of the other circuit and the voltages of said circuits are within a different predetermined



phase range, and means responsive to the movement of each relay to its operated position for maintaining it in its operated position as long as said voltages remain within either of said phase ranges.

2,311,477
INSIDE MICROMETER
William A. Semerak, Chicago, Ill.
Application March 10, 1942, Serial No. 434,081
7 Claims. (Cl. 33—143)

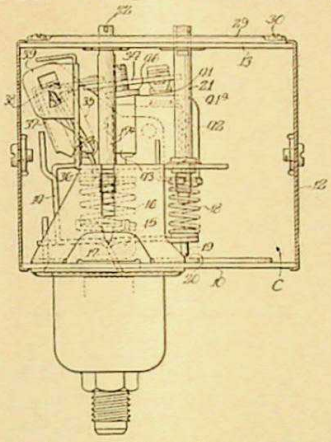


1. In a micrometer, a pair of members engageable with an object to be measured, a stationary element, a movable element telescopically associated with the stationary element for free axial movement of said elements relatively to each other, said elements being provided with cooperating graduated scale and index features, and said movable element being operatively connected to one of said members, whereby said movable element may be quickly and freely shifted axially relatively to the stationary element for causing said members to engage the part of the object to be measured, and thereby instantly obtain a rough calibration of the part of said object, and a calibrated sleeve mounted for threaded rotation on and movable with said movable element, index means at the rear end of the stationary element, cooperating with said calibrated sleeve, whereby said calibrated sleeve and index means together with the aforesaid scale and index features permits obtaining relatively exact calibration of the part of the object being measured.

2,311,478
CONTROL STRUCTURE
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application April 14, 1941, Serial No. 388,563
9 Claims. (Cl. 74—100)

1. In a control structure, a control device having range and differential adjusting screws, a casing for said control device, said screws having shanks extending through a wall of said casing, a pinion on each of said shanks exterior of said wall, gears meshing with said pinions, calibrated scales

driven by said gears at reduced speed relative to the adjusting screws, a cover plate for said pinions, gears and scales, said cover plate being secured to said wall in sufficiently spaced relation thereto to permit operation of said pinions and gears, studs for said gears and scales, said studs



being mounted in said wall and retained in position by said cover plate, each of said pinions having a flange, locking screws having heads for engaging said flanges, said locking screws being threaded into said wall and said cover plate being provided with openings for gaining access to said locking screws.

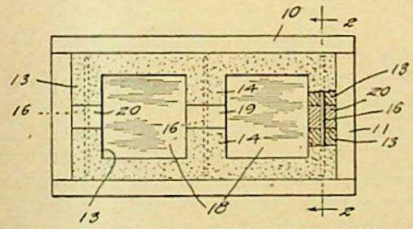
2,311,479

METHOD OF MOLDING CONCRETE BLOCKS

Robert B. Shugart, Orlando, Fla.

Application September 4, 1941, Serial No. 409,571

2 Claims. (Cl. 25—155)



1. The method of molding concrete blocks of opposed wall sections rigidly connected by tie members, said method consisting of placing preformed disintegrable breakdown spacer elements carrying tie members in a mold box, pouring concrete in the mold box to form the wall sections with the concrete bordering the preformed breakdown spacer elements and embedding the tie members in the concrete and disintegrating and removing the preformed breakdown spacer elements during curing of the blocks.

2,311,480

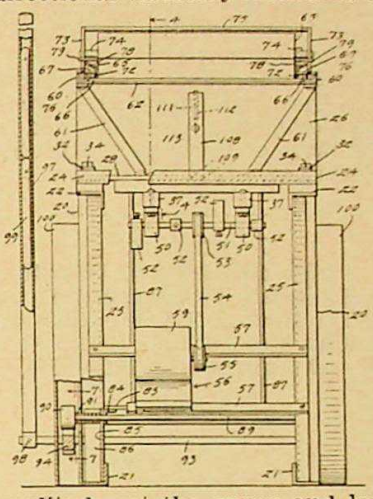
MOLDING MACHINE

Robert B. Shugart and Justice G. Boettcher, Orlando, Fla.

Application September 5, 1941, Serial No. 409,728

12 Claims. (Cl. 25—41)

1. In a block molding machine of the character described, a machine frame, a mold box supported on the machine frame, cores in the mold box, a pair of vibrating bars for the support of the cores and means for vibrating the bars in unison including an unbalanced shaft carried by said bars and located at a point spaced laterally of the mold box for increasing vibratory action of the bars, a connection between the vibrating bars and the mold box, and a twisted flat spring connection between the vibrating bars and core intermediate the upper and lower ends of the cores to impart a multi-directional vibratory motion of the cores



of the amplitudes at the upper and lower ends of the cores.

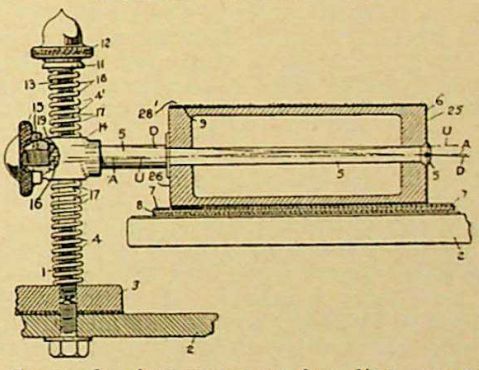
2,311,481

THREAD RECEIVER AND REMOVER

Roy Sinclair, New York, N. Y.

Application August 9, 1941, Serial No. 406,117

2 Claims. (Cl. 274—47)



1. In a shaving remover for disc records, a supporting stanchion, an arbor resiliently secured to said stanchion at one end and a collector freely rotatable on said arbor and means adjusting the relative speed of said collector in relation to the speed of said disc comprising vertical adjusting means between said stanchion and said arbor causing either end of said collector to contact said disc.

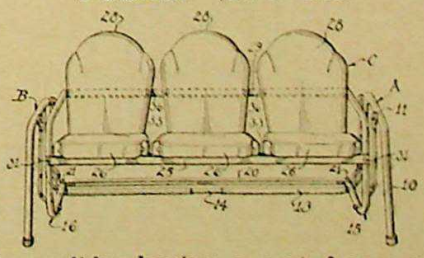
2,311,482

GLIDER STRUCTURE

William I. Smith, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio

Application February 15, 1941, Serial No. 379,075

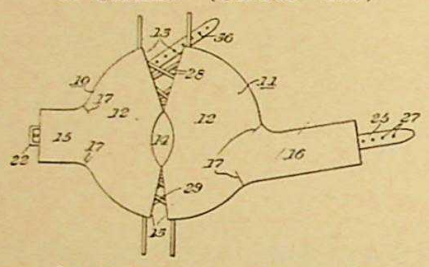
3 Claims. (Cl. 5—124)



1. In a glider having a seat frame provided with a front rail and a rear rail spaced rearwardly from and above the front rail, a plurality

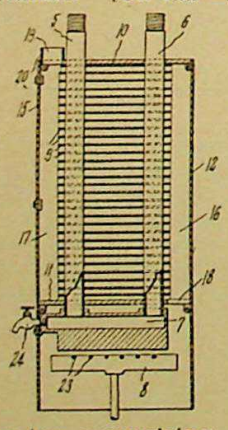
of spaced sheet metal seats and backs each of dish or pan-like form, brackets secured to the rear rail and to the inner faces of the adjacent portions of the sides of the backs, and U-shaped members disposed in the spaces between adjacent seats to hold same spaced and having their bases secured to the upper part of the front rail and their arms extending upwardly and secured to the inner faces of the adjacent portions of the ends of the seats.

2,311,483
PRESSURE KNEE BRACE
William K. Smith, Pittsburgh, Pa., assignor of one-half to Howard E. Waite, Pittsburgh, Pa.
Application May 12, 1941, Serial No. 393,035
10 Claims. (Cl. 128—165)



10. In a knee brace structure, the combination of a pad having a central opening to provide clearance for the patella of the wearer, and said pad adapted, when the pad is in service, to extend rearwardly at either side of the knee to protect the structures associated with the lateral and medial sides of the knee joint respectively, a flexible strap extending outwardly from the medial side of the pad and inclined upwardly at an angle to the horizontal, and means carried by the lateral side of the pad for adjustably securing the free end of the strap thereto without disturbing the relative positions of the medial and lateral portions of the pad, said strap when drawn around the back of the wearer's knee joint forming a connection which is inclined downwardly toward the medial side of the knee to follow the axis of the popliteal fossa.

2,311,484
WATER HEATER
Elmer S. Stack, Arlington, Mass.
Application June 29, 1937, Serial No. 150,969
15 Claims. (Cl. 122—23)

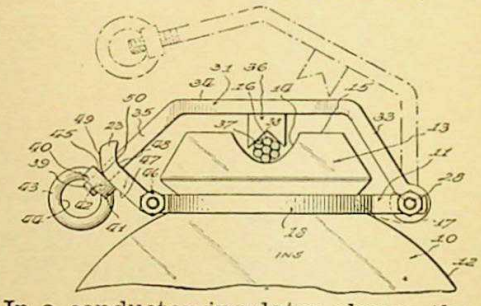


9. A water heater comprising a water container, a burner, an inlet connection to the top of the water container to receive cold water from an external source, an outlet connection from the top of said container, guiding means for compelling down flow of water in its passage between the inlet and outlet, and guiding means for causing flow of products of combustion from said burner in paths which bring the hottest products of combustion into thermal contact with the water adjacent to the outlet.

2,311,485
ZEIN COMPOUND
Oswald C. H. Sturken, Closter, N. J., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 25, 1940, Serial No. 331,599
2 Claims. (Cl. 106—153)

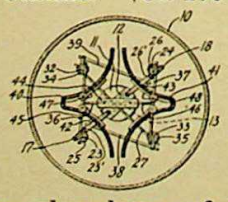
1. A zein film containing the following substances in proportions by weight as follows: zein 100 parts, sorbitol 5–20 parts, triethanolamine 20–50 parts.

2,311,486
CONDUCTOR-INSULATOR CLAMP
William Clar Swearingen, Excelsior Springs, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application December 20, 1941, Serial No. 423,710
10 Claims. (Cl. 174—172)



1. In a conductor-insulator clamp, the combination of a metal collar comprising a pair of similar parts curved to fit in the peripheral groove of an insulator and having laterally projecting flanges at each end, threaded means for securing the adjacent flanges together to clamp the collar on the insulator, and a resilient metal arm pivotally mounted on one of said threaded means and extending upward over and downward with respect to the top of the insulator, said arm having its end threaded and provided with a threaded member having an eye formed therein for engagement with a clamp stick, the adjacent laterally projecting flanges extending at substantially right angles to the threaded portion of said arm and having an upwardly curved camming portion for engaging the threaded member.

2,311,487
ULTRA VIOLET LAMP
John Wesley Marden and Madison G. Nicholson, Jr., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1931, Serial No. 576,022
26 Claims. (Cl. 176—122)



4. A negative glow lamp of the gaseous conduction type comprising an enclosing envelope, a

plurality of closely spaced thermionically active electrodes therein, a grid located between said electrodes and disposed closer to one than the other, and means directly connecting said grid to the closer electrode so that they always operate at the same potential.

2,311,488

METHOD OF DEPOSITING RUBBER AND COMPOSITION EMPLOYED THEREIN

Robert E. Thomas, Stow, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware

No Drawing. Application April 2, 1940, Serial No. 327,455

12 Claims. (Cl. 117—47)

4. A method of producing a rubber deposit on a base which comprises successively applying to the base a plurality of coatings including two coatings of a non-coagulating composition comprising a wetting agent which is not more than 10% by weight soluble in water and, between the two coatings of wetting agent, a coating of a coagulating composition having an aqueous vehicle saturated with the said wetting agent, and thereafter associating the coated base with a coagulable equeous dispersion of rubber.

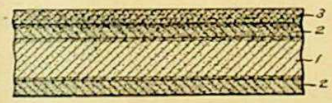
2,311,489

PROCESS OF MAKING SHEET MATERIAL

William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, trustee

Application February 5, 1942, Serial No. 429,672

9 Claims. (Cl. 117—62)



1. Process of making a sheet material which comprises applying, to a supporting web, a water-dispersed resin which sets to a water-wettable partially dried state and hardens to a water-repellent fully dried state, then applying over the resin, while in a water-wettable partially dried state, an aqueous suspension of a colloid and then drying the resin glue to a water-repellent state while the colloid is in contact therewith.

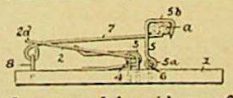
2,311,490

TRAP

James Turpan, Paterson, N. J.

Application December 6, 1941, Serial No. 421,888

2 Claims. (Cl. 43—81)



1. In a trap, the combination of a base, a clamp above and confined to the base to move in a definite upwardly curved path and spring-urged into clamping relation to the base at one side of the axis of said path, a lever above the base and pivoted thereto and adapted to traverse the clamp when the latter is displaced around said axis into opposed relation to the portion of the base at the other side of said axis, and a detent above the base having a universal pivotal connection therewith and movable from a recumbent to an upstanding position and having, projecting from its pivot, fork-forming portions providing spaced bait-supporting seats arranged to face said pivot, said detent being so positioned relatively to the pivot of the lever that when the lever is in said traversing relation to the clamp said lever may be entered between said fork-forming portions to coact with the seats thereof to clamp the bait.

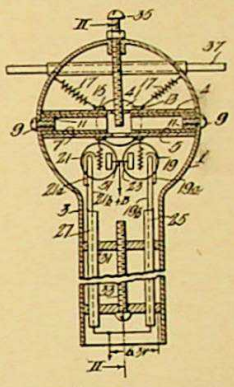
2,311,491

RADIO-ACOUSTIC APPARATUS

Alfred H. Turner, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 31, 1941, Serial No. 404,896

6 Claims. (Cl. 250—17)



1. A radio-acoustic device comprising, in combination, a conductive shell, means within and including said shell for generating radio frequency oscillations, electro-acoustical means carried by said shell and associated with said first-named means for varying its radio frequency characteristics, and means carried by said shell for radiating said varied radio frequency oscillations.

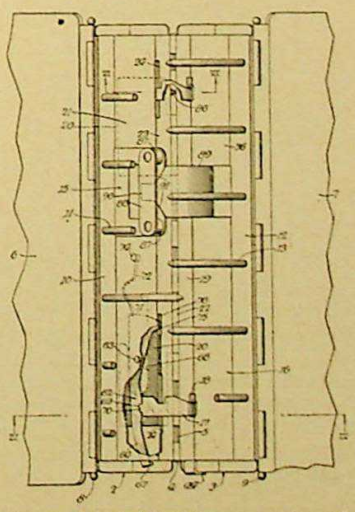
2,311,492

LOOSE-LEAF BINDER

Paul O. Unger, Elmhurst, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts

Application November 21, 1938, Serial No. 241,621

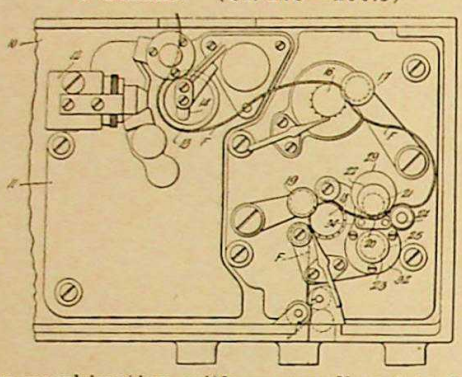
10 Claims. (Cl. 129—17)



2. In a loose-leaf binder, a pair of relatively longitudinally shiftable back sections hinged together, a notched latching bar mounted in one of said back sections and shiftable with said other back section relative to said first mentioned back section, a locking slide in said other back section cooperating with said notched latching bar to hold said back sections in a plurality of predetermined hinged positions, means for momentarily releasing said locking slide to permit movement of said

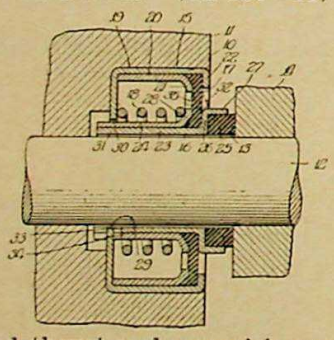
latching bar from one notch to the next adjacent notch only, and means engageable with said latching bar to prevent shifting of said back sections.

2,311,493
CONTROL TRACK PICKUP
Joseph Lemon Underhill, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1941, Serial No. 391,085
6 Claims. (Cl. 179—100.3)



1. In combination with a soundhead including a photoelectric sound reproducer, a constant speed sprocket for pulling film past the sound reproducer, and a hold back sprocket, a control track reproducer located between the constant speed sprocket and the hold back sprocket whereby the hold back sprocket pulls the film past the control track reproducer.

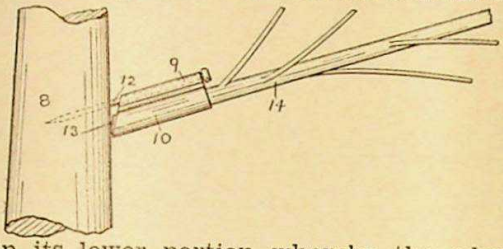
2,311,494
SEAL
Rudolph J. Vedovell, Kenilworth, Ill., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 28, 1940, Serial No. 367,604
6 Claims. (Cl. 286—11)



1. An end-thrust seal comprising an outer portion, an inner portion, a diaphragm connecting said portions, a spring for urging the inner portion axially with respect to the outer portion, and a sealing surface at the front end of the inner portion, said inner portion consisting of two sheet metal tubes which are fixedly telescoped together and are provided at their front ends with outturned flanges between which the inner edge of the diaphragm is clamped.

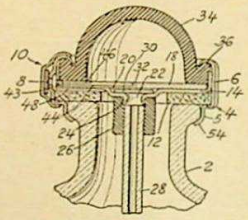
2,311,495
TREE BRACKET
Max Krause, Chicago, Ill.
Application August 11, 1941, Serial No. 406,419
1 Claim. (Cl. 248—42)

A bracket for the purposes described consisting of a strip of resilient material bent on its central longitudinal line into opposite wings of equal dimensions, the upper portions of said wings being formed to provide a longitudinal closed seat for a supporting element, and the lower portions of said wings being formed to provide a longitudinal cylindrical seat having a



slot in its lower portion whereby the edges of the wings have a flexible spring action to grip the stems of tree-branches of different sizes, and an end of the bracket being formed on a slant to support the bracket at an upward tilt.

2,311,496
ATOMIZER
Donald L. Spender, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application March 20, 1941, Serial No. 384,311
9 Claims. (Cl. 299—88)

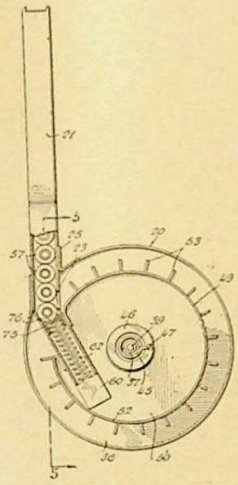


1. An atomizer adapted to be applied to a container comprising a hemispherical compressible bulb, a disc closing the open side of said bulb and provided with an opening therethrough, a member having an opening therethrough for communication with the interior of the container to which the head is applied and formed with a recess surrounding said opening and cooperating with said disc to form a liquid receiving chamber, a valve member housed within said recess between the openings in said disc and member and movable to alternative positions to close the openings in said disc and member, means forming a liquid channel communicating with said recess and extending to the edge of said disc, means forming an air channel extending from the interior of said bulb to a point at the edge of said disc adjacent the end of said liquid channel, and means extending about said disc and member formed with an opening therein adjacent the ends of said channels for the discharge of air and liquid from the atomizer.

2,311,497
MAGAZINE FOR FIREARMS
Oertel F. Van Horn, New York, N. Y., and Kenneth W. Kinney and Francis W. McGlohn, Grand Junction, Colo., assignors to Automatic Appliance Corporation, New York, N. Y., a corporation of New Jersey
Application March 18, 1941, Serial No. 383,892
1 Claim. (Cl. 42—50)

A magazine unit for cartridges, comprising in combination with a cartridge clip having a casing, a movable follower, and a spring engaging said follower for moving the same; a cartridge magazine comprising a casing having an interior communicating with the interior of the casing of the cartridge clip, a shaft carried by the casing of the cartridge magazine and having an end

projecting outside of that casing, a knob carried by said end, a drum carried by said shaft within the casing of the cartridge magazine and having a plurality of outwardly bent tongues forming radial cartridge-supporting projections, a coiled spring surrounding said shaft and having one end connected with said shaft and another end connected with said drum, said drum having a sleeve enclosing said coiled spring, said coiled spring being wound when said drum is turned from an unloaded position to a loaded position, said projections supplying cartridges successively toward the casing of the cartridge clip when the drum is turned by the unwinding of said coiled spring



from said loaded position to said unloaded position, and an elongated inner casing carried by said drum and having an interior communicating with the interior of the cartridge clip in the unloaded position of the drum, the longitudinal axis of said inner casing forming an acute angle with the extension of the longitudinal axis of the clip-casing in said unloaded position, said inner casing containing said follower and said follower-actuating spring during the rotation of said drum and releasing said follower and said spring when said drum is in the unloaded position to enable said follower-actuating spring to move said follower into the casing of the cartridge clip.

2,311,498
AVIATION FUEL

Alexis Voorhies, Jr., Baton Rouge, La., assignor, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware

No Drawing. Application September 16, 1939, Serial No. 295,257

9 Claims. (Cl. 44—80)

1. The method of increasing the net heat of combustion of an aviation fuel containing between 20 and 55% of aromatic hydrocarbons to at least 18,500 B. t. u. per pound without substantially affecting the octane number of said fuel which comprises adding thereto a sufficient quantity of a hydrocarbon having an octane number at least equal to that of the fuel and a hydrogen content in excess of 13.5% to bring the hydrogen content of the mixture to at least 13.5%.

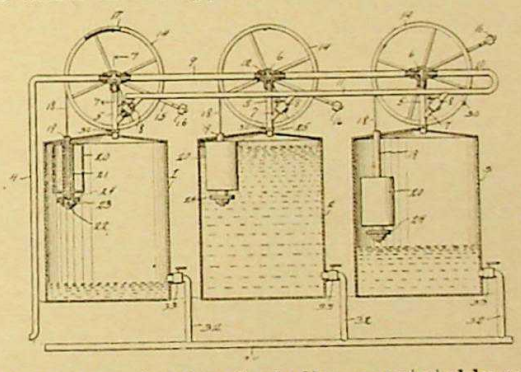
2,311,499
TOP TANK CONTROL

Ruben A. West, Crossville, Ill., and Hubert W. Fulkerson, Muskogee, Okla.

Application February 18, 1941, Serial No. 379,502

4 Claims. (Cl. 137—68)

1. A top tank control, comprising in association with a fluid tank, a supply line, an inlet pipe leading from the supply line into the tank, a valve between the supply line and the inlet pipe and adapted to be actuated to a through flow position in which fluid passes by the inlet pipe to a tank supply position in which the fluid is diverted through the pipe into the tank, a wheel connected with said valve, weight means carried by the wheel normally urging rotation of the latter in a direction to effect actuation of the valve to the through flow position, a weighted float disposed within the tank, a flexible coupling between the float and the periphery of the wheel, said float having sufficient weight to overcome the first weight whereby to actuate the valve to tank supply position when the tank is emptied and the wheel is free for rotation, the float being raised by fluid upon the filling of the tank whereby said weight means effects the turning of the wheel and actuation of the valve to the through flow position of the latter, means for locking said wheel against turning upon the raising of the float in the tank, comprising a keeper arm horizontally secured to extend across the periphery of the wheel, and a shiftable member carried by the wheel at its periphery and constructed so as to ride over the arm upon movement of the wheel in one direction and to lock between the wheel periphery and the arm to prevent movement of the wheel in the opposite direction.



2. In a mechanism including a rotatably supported wheel, means for locking said wheel after its rotation to a predetermined degree in one direction, comprising an arm member secured rigidly to extend transversely of and adjacent to the periphery of the wheel, said wheel having a slot in its periphery extending in a circumferential direction, a pin secured across the slot adjacent one end, a ring member suspended on the pin and movable through the slot radially of the wheel, said ring being adapted to be raised in the slot upon movement of the wheel in the said one direction and upon engagement of the ring with the arm whereby the ring rides over the arm and being movable in the opposite direction through the slot after the wheel has turned to a predetermined position in the said one direction to drop into a position between the arm and an end of the slot to lock the wheel against reverse rotation.

2,311,500
EXTREME PRESSURE LUBRICANT

John C. Zimmer and George M. McNulty, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 8, 1940, Serial No. 334,026

4 Claims. (Cl. 252—48)

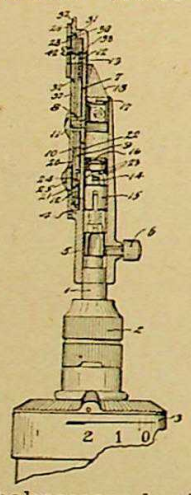
1. A lubricating composition adapted for high pressure service conditions comprising a lubricating oil containing a small but effective amount of

an oil-soluble condensation product of sodium mercaptide and a chlorinated solvent extract of petroleum hydrocarbons containing about 10 to 50% chlorine.

2,311,501
DUMP CAR BOTTOM
Stephen W. Zoldok, San Luis Obispo, Calif.
Application February 4, 1941, Serial No. 377,324
3 Claims. (Cl. 105—422)

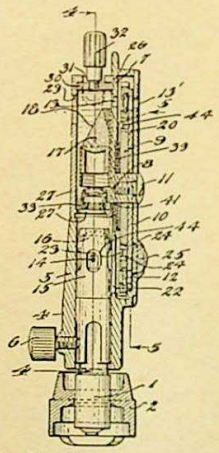
1. In a receptacle for transporting and dumping abrasive chunks of heavy material, a corrugated sheet of material against which the material slides in dumping arranged with its corrugations extending longitudinal to the movement of the material in dumping, the upper crowned portions of the corrugated sheet being thickened and spaced close enough to take the greater part of the abrasive weight of the material in the longitudinal sliding movement of the material during the dumping operation.

2,311,502
OPHTHALMOSCOPE
William N. Allyn, Skaneateles, N. Y.
Application January 21, 1941, Serial No. 375,343
5 Claims. (Cl. 88—22)



1. In an ophthalmoscope having a frame provided with a sight opening therein, a rotary lens carrier disc centrally mounted on the frame at one side thereof and carrying a plurality of spherical lenses selectively registrable with the sight opening in the frame on rotation of the lens carrier disc, illuminating means mounted on the opposite side of the frame, said illuminating means including reflector means for directing the light in the form of a beam onto the subject under examination, in the general line of vision through the sight opening, a cover plate secured to the frame over the lens carrier disc, with the latter disc disposed for free rotation between the cover plate and the frame, said cover plate having a circular opening therein arranged coaxially respecting the sight opening in the frame, a circular support rotatably mounted in said cover plate opening and having a central sight opening therein aligned with the sight opening in the frame, an auxiliary lens carrier disc rotatably mounted on the circular support with its axis of rotation arranged at a distance to one side of the central axis of rotation of said circular support, said auxiliary lens carrier disc being provided with a plurality of cylindrical lenses selectively registrable with the aligned sight openings in the circular support and frame, and also having a plain sight opening therein registrable with the sight openings aforesaid separately from the cylindrical lenses when the latter are not in use, and actuator means attached to the circular support and projecting radially therefrom towards the margin of the cover plate, whereby to permit rotative adjustment of the circular support and bodily movement of the auxiliary lens carrier disc mounted thereon, to produce angular adjustment of the axes of the respective cylindrical lenses relative to the line of vision through the aforementioned aligned sight openings, when each cylindrical lens is registered with the sight openings.

2,311,503
OPHTHALMOSCOPE
William N. Allyn and William G. Allyn, Skaneateles, N. Y.
Application January 21, 1941, Serial No. 375,344
9 Claims. (Cl. 88—22)

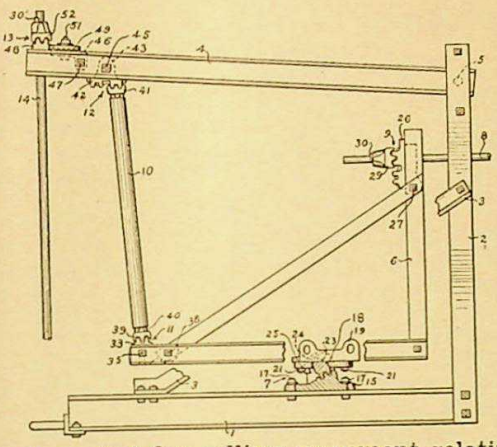


1. In an ophthalmoscope, a frame having a sight opening therein to permit observation of the subject therethrough, a rotary lens carrier mounted on the frame and carrying a plurality of lenses for selective registration with the sight opening, an illuminating system carried by the frame at one side of the lens carrier for directing a beam of light onto the subject in the line of vision through the sight opening and a selected lens registered therewith, said last named means including a source of light and light reflecting means spaced from the source of light and carried by the frame adjacent to the sight opening, an annular member rotatably mounted on the frame and encompassing the light reflecting means aforesaid with one side only of the annular member interposed between the source of light and the light reflecting means, and means carried by said annular member and selectively movable into the path of the light rays between the source of light and the light reflecting means for modifying the light rays entirely at a point at the side of the rotatable annular member which is disposed between the light source and the reflecting means aforesaid.

2,311,504
PUMP JACK
John O. Andree, Wichita Falls, Tex.
Application May 14, 1940, Serial No. 335,134
6 Claims. (Cl. 308—21)

1. In a pump jack, the combination of a base, a walking beam pivotally supported on the base, a rocking frame having a bearing support on the base, an upstanding post interposed between the

rocking frame and the walking beam and having bearing supports therebetween, a pull rod bearing support connected with said rocking frame, a pump rod bearing support on the free end of the walking beam, each of said bearing supports having coacting engaged bearing sur-



faces mounted for rolling movement relative to each other, interengaged means for preventing sliding movement of one of said surfaces relative to the other, and means converging longitudinally of the pull rod and pump rod for wedgingly securing the pull rod and pump rod with the respective bearing supports.

2,311,505

COPPER CORROSION INHIBITOR

Francis M. Archibald, Elizabeth, N. J., and Carl A. Harris, New York, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 8, 1939, Serial No. 293,950

2 Claims. (Cl. 252—47)

1. The method of decreasing the corrosive action of mineral white oil compositions on copper which comprises incorporating saccharine in an amount between 0.5% and 0.0001% in a highly refined mineral white oil distillate, which is corrosive to copper, has a viscosity above about 32 Saybolt-Universal seconds at 100° F. and has a color between about 16 and 30 Saybolt.

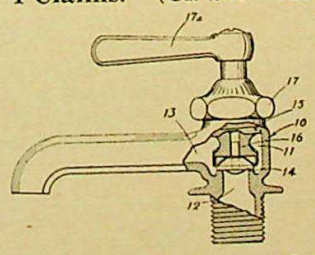
2,311,506

VALVE STRUCTURE

Alton L. Arey, East Cleveland, Ohio

Application December 22, 1941, Serial No. 423,949

4 Claims. (Cl. 251—160)



1. A resilient valve washer with a valve seat engaging surface formed on the bottom thereof and having a centering pin projecting beyond the top surface of the washer arranged to be received within the axial bore of a valve stem, and resilient securing means for maintaining the washer operatively positioned with respect to the end of a valve stem, said means comprising resilient members secured to the top surface of the washer and said centering pin and adapted to extend along the side of the valve stem and having the extremities thereof inwardly bowed and adapted to be seated within a circumferential groove of the valve stem.

2,311,507

SHRINKPROOFING PROCESS

Paul Arthur, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 19, 1940, Serial No. 324,869

2 Claims. (Cl. 8—128)

1. Process for improving a woolen textile which comprises treating the same with a chlorinating agent dissolved in a solvent comprising dioxane, said chlorinating agent being one which liberates hypochlorous acid in contact with water.

2,311,508

PROCESS FOR TREATING ROSIN

László Auer, South Orange, N. J.

No Drawing. Application June 17, 1942, Serial No. 447,439

10 Claims. (Cl. 260—98)

1. The process of making a modified and softened rosin product from solid and brittle rosin, which process comprises incorporation in the rosin up to 30% of magnesium sulphate, and heating the mixture out of contact with the atmosphere at a temperature of from 250° C. to 350° C. until the resultant mixture, when cooled, is softened to a consistency between about that of cold flow and about that of viscous oil, the time of treatment further being sufficient to appreciably reduce the acid number of the rosin but not sufficient to lower said acid number to a value below about 60.

2,311,509

ROSIN TREATMENT

László Auer, South Orange, N. J.

No Drawing. Application October 12, 1942, Serial No. 461,790

7 Claims. (Cl. 260—106)

1. A process for making a modified rosin product from hard and brittle rosin, which process comprises incorporation in the rosin of from 2% to 10% of a metal salt containing chromium in the anion and heating the mixture out of contact with the atmosphere between about 250° C. and 350° C., but not above the temperature at which appreciable destructive distillation occurs under the conditions of the treatment, the time of treatment being sufficient to reduce the acid value of the rosin as compared with the acid value of the same rosin heated to the same temperature under the same treatment conditions but without a modifying agent.

2,311,510

ROSIN TREATMENT METHOD

László Auer, South Orange, N. J.

No Drawing. Application October 12, 1942, Serial No. 461,791

8 Claims. (Cl. 260—106)

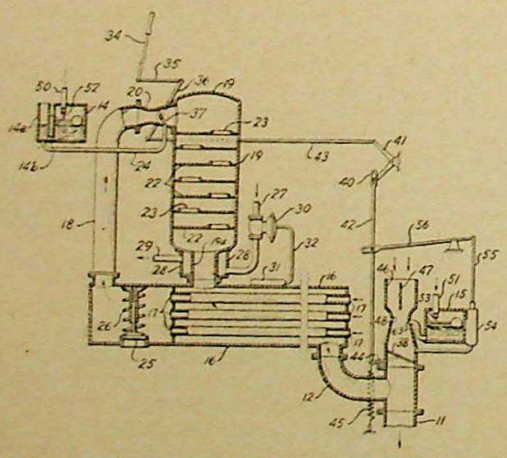
1. A process for making a modified and softened rosin product from hard and brittle rosin, which process comprises incorporation in the rosin of from 2% to 10% of a metal acetate selected from the class consisting of lead and aluminum acetates, and heating the mixture out of contact with the atmosphere between about 250° C. and 350° C., but not above the tempera-

ture at which appreciable destructive distillation occurs under the conditions of the treatment, the heating being continued for a time sufficient to lower the melting point and to reduce the acid value of the resin as compared with the melting point and acid value of the same rosin heated to the same temperature under the same treatment conditions but without modifying agent.

2,311,511
TREATMENT OF ROSIN
László Auer, South Orange, N. J.
No Drawing. Application October 12, 1942, Serial No. 461,792
15 Claims. (Cl. 260—106)

1. A process for making a modified and softened rosin product from hard and brittle rosin, which process comprises incorporation in the rosin of up to 30% of a salt having an anion capable of releasing a gas other than oxygen under the conditions of the process, and selected from the class consisting of carbonates, sulphides and sulphites formed with a member of the cation class consisting of the alkali metals and ammonia, and heating the mixture out of contact with the atmosphere between about 250° C. and 350° C., but not above the temperature at which appreciable destructive distillation occurs under the conditions of the treatment, the heating being continued until the resultant mixture, when cooled, is softened as compared with the same rosin treated under the same conditions but without the modifying agent, but the extent of softening not being beyond that yielding a semi-solid plastic mass displaying cold flow properties, the time of treatment further being sufficient to reduce the acid value of the rosin as compared with the acid value of the same rosin heated to the same temperature under the same treatment conditions but without a modifying agent.

2,311,512
REFRIGERATION
Sigurd Mattias Backstrom and Per Paul Strandberg, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application September 18, 1939, Serial No. 295,420
In Germany March 31, 1939
14 Claims. (Cl. 62—169)

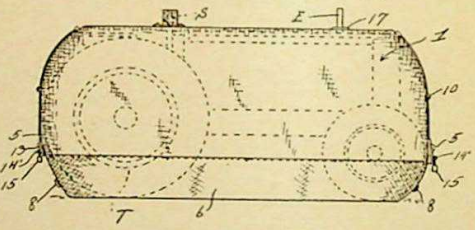


1. The combination with an internal combustion engine, of refrigeration apparatus comprising a cooling element, means for supplying to said element vaporizable fuel for said engine, a heat exchanger for producing heat exchange between air entering and a mixture of vaporous fuel and air leaving said element, and means responsive to a predetermined low pressure within said element for introducing therein air which has not been reduced in temperature by passage through said heat exchanger.

2,311,513
METHOD OF APPLYING LUMINESCENT COATING
Maurice E. Bell, Wilkinsburg, and Leo J. Berberich, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application January 17, 1940, Serial No. 314,274
12 Claims. (Cl. 117—34)

1. The method of applying luminescent material to the container of an electric discharge device comprising coating the surface of the container with a suspension of luminescent material in a depolymerizable resin dissolved in a solvent, drying the coated container to volatilize the solvent, evacuating the assembled device by connecting to an exhaust system, and heating the coated container to a temperature ranging from 250° to 500° C. while subjected to the evacuating system to depolymerize the resin into readily removable volatile units which are removed by the exhaust system without contamination of the latter leaving a residue of only luminescent material free of a carbonaceous deposit and having a uniform thickness and particle distribution in direct adhesion with the surface of the container.

2,311,514
PORTABLE SHELTER FOR MOTOR VEHICLES
Ora Bramblett, Springfield, Colo.
Application May 12, 1942, Serial No. 442,717
4 Claims. (Cl. 135—5)

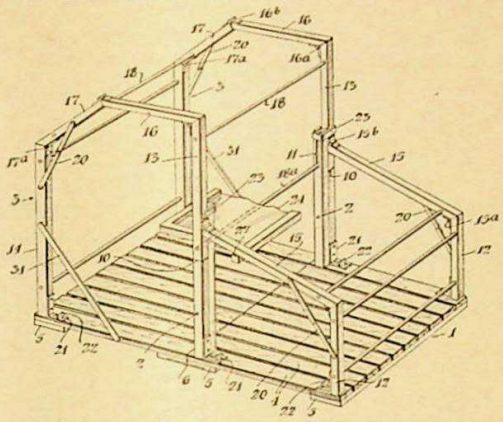


1. A portable shelter for motor vehicles and other bodies, comprising a one-piece fabric body adapted to position over the vehicle and shaped to provide two longitudinally extending wings, each of said wings having a curved end edge, the edges of adjacent ends of the wings converging at the longitudinal center of the cover body, means for securing together the adjacent curved wing ends from the convergent ends of the curved edges throughout the major extent thereof, and means for securing together the adjacent ends of the wing portions adjacent to the longitudinal free edges thereof whereby to draw in and shorten the overall length of the fabric body adjacent to the longitudinal edges thereof.

2,311,515
COLLAPSIBLE STRUCTURE
Herbert C. Bridge, Somerset, Mass.
Application February 18, 1941, Serial No. 379,402
4 Claims. (Cl. 135—4)

1. A three-piece collapsible frame cabin structure comprising floor boards collapsible along a line of fold, a pair of detachable upright retentive members adjacent each side of said floor, and on one side only of said line of fold, a completely foldable connected series of three pairs

of uprights and connecting top members, two pairs of said uprights arranged for detachably



securing to the ends of said floor member and the third pair of uprights arranged for positioning on said first mentioned uprights.

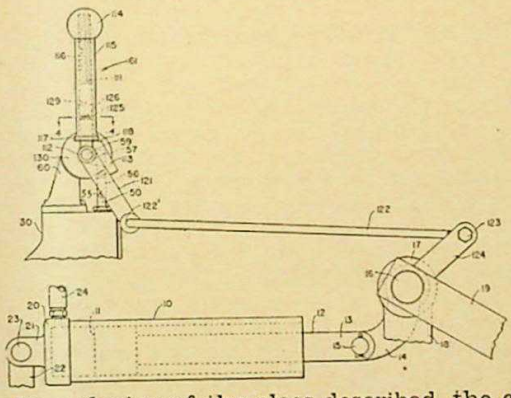
2,311,516

HYDRAULIC CONTROL MECHANISM

Theophilus Brown and Frank T. Court, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application September 27, 1941, Serial No. 412,554

8 Claims. (Cl. 121—38)



1. In a device of the class described, the combination of a power actuated movable member, a control lever associated therewith and pivotally mounted for swinging movement from a neutral position to effect a movement of said member in a certain direction, a handle for manually swinging said lever to control said member, said handle being mounted on said lever by means providing for movement relative thereto about an axis disposed generally perpendicular to the axis of movement of said lever, stop means attached to said handle and operative to engage cooperative stop means to control the actuation of said lever and thus to limit the extent of movement of said power actuated member, said stop means being shiftable by moving said handle relative to said lever, thereby changing the terminal position of said member.

2,311,517

PROCESS OF INCORPORATING VITAMINS A AND D INTO AQUEOUS MEDIUMS

Loran O. Buxton, Harrison, and Sol T. Lipsius, Newark, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application June 30, 1939, Serial No. 282,128

6 Claims. (Cl. 99—11)

1. Process of incorporating vitamins A and D into an aqueous medium, which comprises saponifying an oil containing vitamins A and D; extracting said vitamins from the saponified oil by means of a solvent to form a concentrate thereof; removing from said concentrate the constituents therein which are insoluble in methanol at about −20° C.; and mixing an ethanol solution of the concentrate into an aqueous medium to form an aqueous dispersion of the concentrate in said aqueous medium.

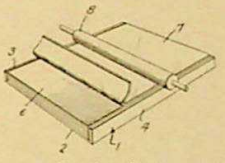
2,311,518

METHOD OF APPLYING POLISHED COATINGS TO SHEET UNITS

Eugene Caligari, Jr., Norfolk, Va.

Application February 24, 1940, Serial No. 320,678

1 Claim. (Cl. 117—64)



Method of manufacturing a wall panel having a rigid plywood back and an adherent smooth rigid surface layer of plastic material, comprising applying to one side of the plywood panel a fluent plastic coating which wets the panel and dries adhesively thereto, applying to the outer surface of said coating while fluent, a flexible surfacing sheet having a polished contacting surface adherent to the surface of the coating while fluent, preventing localized ruptures in said surface due to the inherent grain raising property of the plywood when wet, but non-adherent to the plastic coating after the latter has dried, leveling the fluent plastic coating through pressure applied progressively through successive areas of said surfacing sheet, thereby producing substantially perfect and continuous contact between said surfacing sheet and coating, drying the coat, and removing the surfacing sheet.

2,311,519

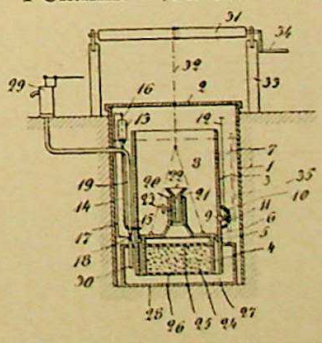
FILTERING AND STERILIZING APPARATUS FOR WATER

Carl Algot Carring, Stockholm, Sweden

Application June 20, 1939, Serial No. 280,169

In Sweden June 25, 1938

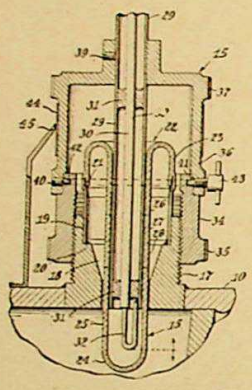
4 Claims. (Cl. 210—123)



1. Filtering and sterilization apparatus for water comprising, a container adapted to be lowered into a well, a filter basket in said container dividing the same into an upper sterilizing zone and a lower pure water zone communicating through said basket, inlet means adapted to establish communication between the crude water of a well and said sterilizing zone, said inlet being disposed below the normal surface level of the crude water to provide for a gravity feed, valve controlled means for supplying a sterilizing agent to

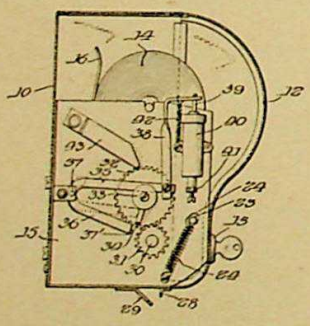
said zone of sterilization, means establishing communication between said pure water zone and atmosphere, and a withdrawing conduit terminating in said pure water zone at a point above the lower edge of said filter basket.

2,311,520
COUPLING LOOP
David G. Clifford, Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 13, 1941, Serial No. 406,599
17 Claims. (Cl. 250—27.5)



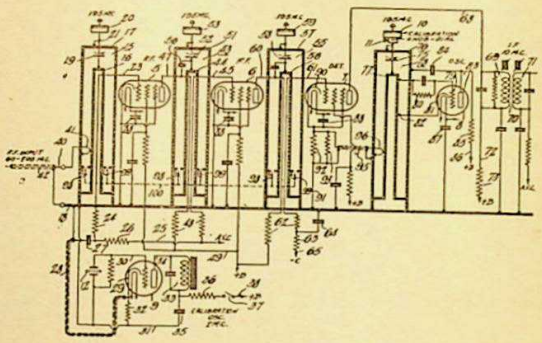
7. An electron discharge device comprising an evacuated hollow body resonator, a rotatable coupler slidably insertable in said resonator with the inner end of said coupler physically within the resonator and movable and removable with the vacuum-seal of the resonator retained unimpaired, and means for both rotating and sliding said coupler.

2,311,521
DISPENSER
Bearl E. Colburn, Green Bay, Wis.
Application March 9, 1942, Serial No. 433,904
5 Claims. (Cl. 164—84.5)



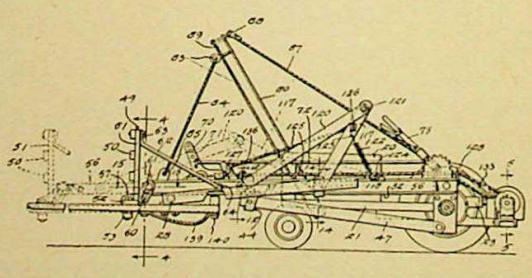
1. A construction of the class described comprising a cabinet; a roll of paper mounted in said cabinet; feed rollers arranged to deliver a section of a strip of paper from said roll; crank arm for operating one of said rollers to withdraw said section from said roll and deliver the same from said cabinet; a gear operatively connected with said driven roller; a gravity held pawl cooperating with said gear to prevent reverse movements of said roller; a radially extending elongated combined cam and stop bar secured to a face of said gear; U-shaped lever pivotally mounted adjacent said gear with its arms extending across the face thereof to embrace said cam bar, one of said arms being longer than the other to contact with the end of said cam bar to be oscillated thereby, the other arm of said lever being shorter and arranged to contact with the side of said cam bar to stop rotation of said gear; a spring normally holding said lever in its position of rest; and a dash pot operatively connected with said lever and arranged to retard the return of said lever to its normal position of rest.

2,311,522
HIGH FREQUENCY RECEIVER
William H. Conron, Haddonfield, N. J., and Benjamin W. Suckle, Philadelphia, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application August 29, 1941, Serial No. 408,868
5 Claims. (Cl. 250—20)



1. The method of adjusting a superheterodyne receiver for signal reception, which comprises tuning the input circuits to a predetermined signal frequency, generating oscillations at a relatively low frequency, applying said oscillations to said receiver through said circuits, adjusting the main oscillator to a frequency differing in frequency from a higher harmonic of the first named oscillations by the amount of the intermediate frequency, and then readjusting the tuning of said oscillator and the tuning indication thereof by such a small increment that the deviation from the accuracy of the first adjustment is negligible, to provide an oscillator frequency differing from the tuning of the input circuits by the amount of the intermediate frequency.

2,311,523
COMBINATION HAY BUCK, STACKER, AND LOADER
Kenneth V. Cope and Henry Harm Helmers, Merrill, Iowa
Application February 3, 1941, Serial No. 377,258
13 Claims. (Cl. 214—140)



1. A buck rake for attachment to a tractor comprising a rake, a shiftable supporting structure for and bodily carrying said rake, means swingably securing said structure on the tractor, means swingably mounting said rake on said structure, elevating means for said structure to thereby elevate the rake, and means for tilting upwardly said rake relative to said structure said elevating means being spring-controlled.

2,311,524

PROCESS OF PREPARING STORAGE BATTERY CASES AND THE LIKE

Edward R. Dillehay, Glen Ellyn, Ill., assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio

No Drawing. Application September 1, 1938, Serial No. 228,012

5 Claims. (Cl. 18—55)

1. A process of preparing hollow moulded articles from continuously thermoplastic moulding compositions which comprises heating a mould charge of the composition, and moulding it in a cooled mould under pressure to shape it, permitting the article to remain in the mould until it has sufficient rigidity for removal but is insufficiently set to develop ultimate surface characteristics, removing it, and immediately plunging it into a bath of cold water.

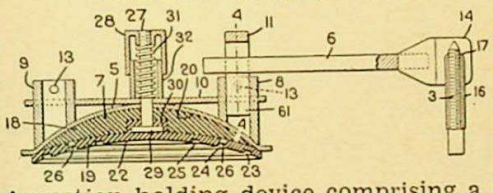
2,311,525

SUCTION HOLDING DEVICE

Vernon M. Ebbs, Somerville, Mass., assignor of one-half to William F. Heavey, East Milton, Mass.

Application August 12, 1942, Serial No. 454,612

6 Claims. (Cl. 248—206)



4. A suction holding device comprising a body member having concavo-convex shape, a suction member having a back section of sponge rubber and an apertured front section providing a normally concave suction face, a stem secured to the suction member and extending through the body member, whereby pressure applied to the stem will force the suction face of the suction member into intimate suction contact with a surface to which the holding device is to be temporarily attached and moisture with which the sponge rubber section has been loaded will be forced out through the apertures of the front section thereby moistening the suction face.

2,311,526

HEAT-CONDUCTING LUTING MATERIAL

William C. Ferguson and Paul Sussenbach, St. Louis, Mo., assignors to The Presstite Engineering Company, St. Louis, Mo., a corporation of Missouri

No Drawing. Application June 30, 1939, Serial No. 282,065

2 Claims. (Cl. 260—765)

2. A luting material comprising approximately 50% by weight of aluminum flake powder, approximately 39% by weight of a petroleum lubricating oil, approximately 10% by weight of an asphaltic binder, the remainder comprising small quantities of soap and rubber.

2,311,527

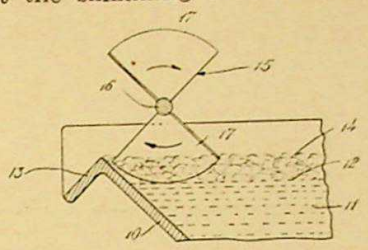
FLOTATION

Philip M. Frantz and William M. Bertholf, Pueblo, Colo., assignors to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado

Application December 17, 1941, Serial No. 423,342

5 Claims. (Cl. 209—168)

1. In a froth flotation machine having a flotation chamber adapted to contain a pool of liquid underlying a bed of mineral-bearing froth, the combination which comprises a skimming member in the form of a helical blade rotatably mounted on an approximately horizontal axis above the pool, a froth over-flow on the chamber adjacent the skimming member and below its



axis, and means for positively rotating the helical blade about its axis.

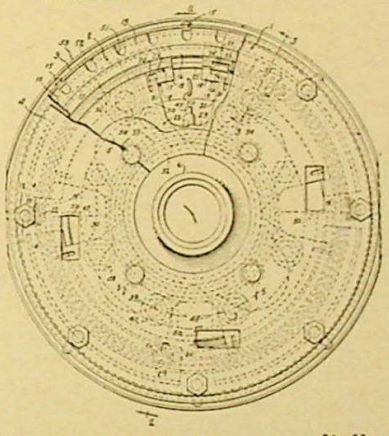
2,311,528

BRAKE

Phelps M. Freer, Detroit, Mich.

Application February 17, 1941, Serial No. 379,313

5 Claims. (Cl. 188—78)



1. In a brake, a brake drum, a radially movable friction member, a friction member within and mounted on said brake drum for frictional engagement by said first mentioned friction member, said second mentioned friction member being provided with openings for the passage of air, a backing plate for guiding said first mentioned friction member provided with an opening forming an oil drain and an air intake, and air circulating means rotatable with said drum for drawing air through the opening in said backing plate and forcing the air through the openings in said second mentioned friction member.

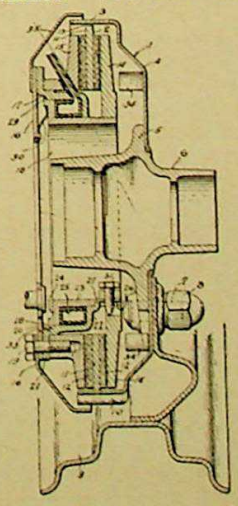
2,311,529

BRAKE

Phelps M. Freer, Detroit, Mich.

Application February 17, 1941, Serial No. 379,314

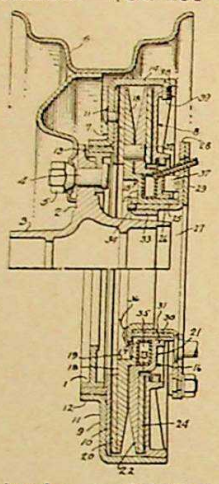
4 Claims. (Cl. 188—72)



1. In a brake, a drum, a backing plate pro-

vided with an opening therethrough in its lower portion, a collar secured to said backing plate, a sleeve mounted on said collar, said collar and sleeve cooperating with said backing plate to form a pocket leading to said opening, and cooperable friction members mounted on said drum and sleeve.

2,311,530
BRAKE
Phelps M. Freer, Detroit, Mich.
Application January 6, 1942, Serial No. 425,791
3 Claims. (Cl. 188—72)



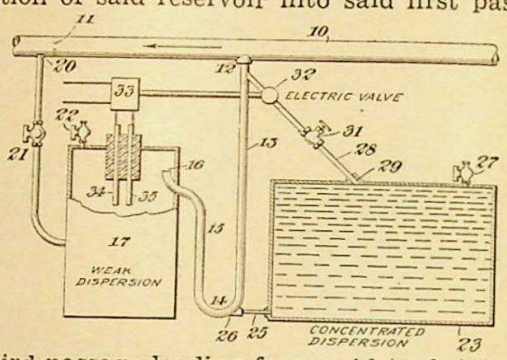
1. In a disc brake, a friction element comprising brake members having friction faces axially spaced from each other, a cooperating friction element comprising brake members extending between said friction faces and movable in opposite directions toward and into engagement with said friction faces, a stationary collar carrying said second mentioned brake members, a nut threaded on said collar and cooperating therewith to limit movement of one of said second mentioned brake members in opposite directions, an actuator for moving said second mentioned brake members toward said friction faces, and spring means for urging said second mentioned brake members away from said friction faces, said spring means including a spring carried by said nut and engaging one of said second mentioned brake members and another spring engaging the other of said second mentioned brake members.

2,311,531
CATALYTIC ALKYLATION PROCESS
Stewart C. Fulton, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 24, 1940, Serial No. 354,049
10 Claims. (Cl. 196—10)

2. A process for the production of normally liquid, substantially completely saturated, branched chain hydrocarbons which comprises alkylating isoparaffin with mono-olefin in the presence of a catalyst of the "ansolvo" type, wherein one component of the acid is an inorganic halide while the other component is an organic acid.

2,311,532
LIQUID TREATMENT APPARATUS
Victor Paul Gershon, New York, N. Y.
Application August 12, 1939, Serial No. 289,859
1 Claim. (Cl. 210—18)

Apparatus for adding, continuously and automatically, a predetermined proportion of a substance to a flowing liquid; said apparatus comprising a conduit through which said liquid is caused to flow, and a by-pass system for diverting a portion of said flowing liquid at one point of said conduit, introducing said substance thereinto and then introducing the resulting mixture into said conduit at a subsequent point, said system comprising a reservoir for a relatively concentrated dispersion, heavier than the flowing liquid, a tank, a passage for admitting the diverted liquid to said tank, a branch leading from said passage into the upper portion of said reservoir, a second passage leading from the lower portion of said reservoir into said first passage,



a third passage leading from said tank into said conduit, a valve, electrically operated, in said branch, a source of electricity to energize said valve, an electrode system positioned in said tank, a source of electricity connected to pass a current through said electrode system and a third circuit interrelating the above valve operating circuit and the said electrode circuit so that the valve is caused to open when the electrode current decreases to a predetermined magnitude and to close at a slightly increased predetermined magnitude, the variation between the two magnitudes corresponding to the allowable tolerance of variation in the composition of the mixture in the tank.

2,311,533
IRIDESCENT PLASTIC COMPOSITION
Irving Gertzog and Louis Gertzog, Rochester, N. Y., assignors to Rochester Button Company, Rochester, N. Y., a corporation of New York
No Drawing. Application December 26, 1941, Serial No. 424,546
16 Claims. (Cl. 106—148)

5. A plastic composition comprising a thermosetting plastic substance, and foliaceous particles of lead acid arsenate.

2,311,534
POLYESTER COMPOUNDS AND METHOD OF MAKING SAME
Anthony H. Gleason, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 8, 1938, Serial No. 244,561
18 Claims. (Cl. 260—78)

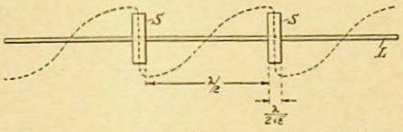
1. The process of making high molecular weight polyesters which comprises essentially subjecting to auto-esterification, at a temperature between the approximate limits of 100° C. and 200° C., in the presence of an organic acid catalyst, mono-carboxylic organic acids having the general formula

$$Z-\underset{\underset{R}{|}}{CH}-(CH_2)_xCOOH$$

in which R is a hydrocarbon radical selected from

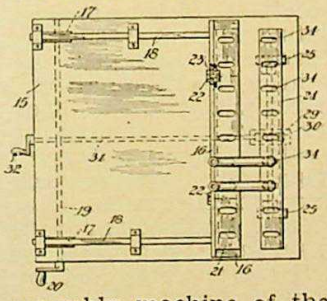
the group consisting of alkyl and phenyl radicals, x is at least 5, and Z is a functional group capable of undergoing condensation with a carboxyl group and is selected from the class consisting of hydroxyl and amino groups, said esterification being carried out in the absence of strong acids which tend to convert secondary hydroxy acids into olefinic acids.

2,311,535
DIRECTIVE ANTENNA
Joachim Goldmann, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany
Application October 10, 1941, Serial No. 414,414
In Germany June 27, 1940
3 Claims. (Cl. 250—33)



1. An antenna comprising a straight conductor and means for effectively dividing said conductor into half-wavelength resonant sections, comprising discs of material having a high dielectric constant threaded on said conductor and spaced apart along said conductor a distance substantially equal to a half-wavelength at the operating frequency, the thickness of said discs being a selected function of the operating wavelength and the dielectric constant of the material from which said disc is made.

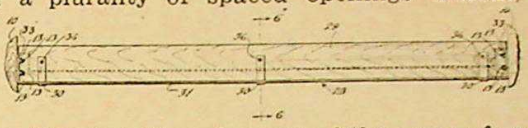
2,311,536
ASSEMBLY MACHINE
Sol Goodman, New York, N. Y.
Application May 24, 1941, Serial No. 394,973
2 Claims. (Cl. 29—89)



1. In an assembly machine of the character described, the combination of a frame, a pair of elongated shelf members provided with socket-like means therealong similarly spaced on each of said members respectively, and means on the frame for independently moving one of the shelf members along the horizontal and for independently moving the other shelf member along the vertical; said shelf members being in constant parallel, longitudinally fixed relation, adapted to receive various elements thereon and thereacross which require to be assembled.

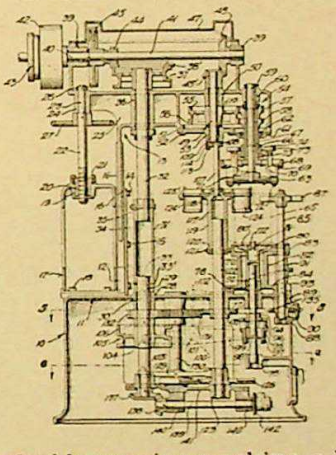
2,311,537
BEDRAIL
Vincent Giuseffi, South Orange, N. J.
Application March 23, 1940, Serial No. 325,523
3 Claims. (Cl. 5—286)

2. A unitary assembly comprising a rigid rail comprising a pair of couplers, each coupler having a plurality of slots therein, an elongated vertical plate extending between and secured to said couplers, an elongated horizontal plate secured to said first plate and disposed at substantially right angles thereto, a mask rail having a slot in the lower edge thereof, said first plate located in said slot, said second plate having a plurality of spaced openings therein, a



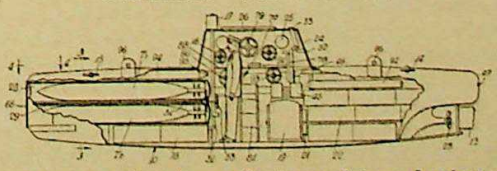
plurality of rigid angles, one of the arms of each of said angles extending through each of said openings and disposed adjacent the inner surface of said mask rail and secured thereto, the other arm of each of said angles bearing against the lower face of said second plate.

2,311,538
CAN DOUBLE SEAMING MACHINE
Henry L. Guenther, Los Angeles, Calif.
Application April 23, 1938, Serial No. 203,875
1 Claim. (Cl. 113—14)



In a can double seaming machine, a base structure, a lower can chuck associated therewith, means delivering cans to said chuck, a super structure disposed above the base structure, an upper chuck and seaming head carried by the super structure to act upon a can resting upon the lower chuck, a cap feed carried by the super structure, a star wheel carried by the super structure and delivering caps to the cans, driving means carried by the super structure for driving the seaming head, driving means in the base structure for operating the lower chuck and the star wheel, an extensible driving member between the super structure and the base, an extensible driving member between the base and the star wheel, and means for vertically adjusting the position of the super structure with relation to the base.

2,311,539
SUBMARINE
John A. Hanley, Noroton, Conn.
Application October 4, 1940, Serial No. 359,637
9 Claims. (Cl. 114—17)



1. A submarine torpedo launching device comprising a pair of torpedo tubes, a pair of mechanically operated ejectors in back of said tubes, common means for advancing both of said ejectors concurrently and means controlled from one

of said ejectors to render the other inoperative with respect to the remaining torpedo while said ejector is performing a launching operation.

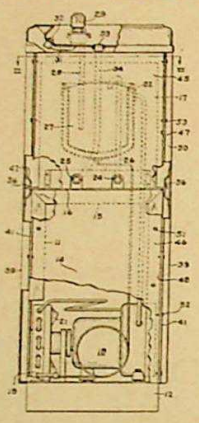
2,311,540

CABINET CONSTRUCTION

Roger W. Hastings, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 30, 1940, Serial No. 348,337

2 Claims. (Cl. 312—172)



1. In a cabinet construction for enclosing and supporting a cooling mechanism, the combination of a rectangular internal frame member including vertical uprights at the four corners thereof defining front, sides and rear of said frame member, said frame member adapted to support said cooling mechanism and said cooling mechanism having substantially permanent liquid connections thereto from a source outside said cabinet, a readily removable unitary casing forming front and side walls of said cabinet construction, means for readily detachably supporting said unitary casing from said frame, and means for retaining said unitary casing in position on said frame, said frame being so constructed that the cooling mechanism is accessible from sides and front of said frame when said casing is removed, said supporting means and retaining means being so constructed and arranged that the unitary casing is readily removable from the frame without disturbing said liquid connections.

2,311,541

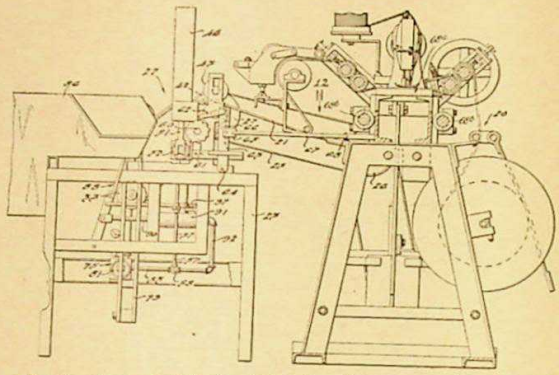
FABRIC FOLDING AND CUTTING MACHINE

Hubert B. Hathaway, Windsor, Ontario, Canada, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich., a corporation of Michigan

Application June 17, 1940, Serial No. 340,914

3 Claims. (Cl. 112—2)

1. In combination with a fabric pocket strip sewing machine in which the sewing machine oscillates transversely to the line of feed of the fabric and a fabric folding and cutoff machine comprising feeding rolls to feed a strip of fabric to a fabric folding and cutting machine to fold a predetermined length of fabric from a continuous strip, and thereafter to cut said folded length from said strip, said machine comprising fabric feeding rolls, a power driven fabric folding mechanism, fabric cutoff and ejector mechanisms, hydraulically actuated power cylinders operatively connected with each of said cutoff and ejector mechanisms to actuate the same, and a timed control mechanism timed in synchronization with said sewing machine and adapted to operate said cutoff mechanism to cut the fabric and stop said folding mechanism, and thereafter



to eject the folded fabric from said folding mechanism.

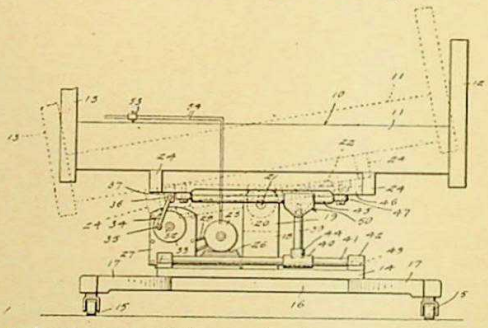
2,311,542

BED

Edward Dumville Holme, St. Joseph, Mo.

Application April 10, 1941, Serial No. 387,965

8 Claims. (Cl. 5—109)



1. A bed comprising a body supporting frame, a base, a pedestal fixed to said base, an elongated longitudinal frame supporting member pivotally carried by said pedestal for rocking movement in a longitudinal direction, pivot means at right angles to the pivot axis of said longitudinal member pivotally securing said member to said body supporting frame, whereby said body supporting frame may rock in a transverse direction, means carried by said base connected with said longitudinal frame supporting member for rocking said member relative to said pedestal, and means connected with said base and said body supporting frame and longitudinally adjustable relative thereto for effecting transverse rocking of said body supporting frame relative to said supporting member simultaneous with the longitudinal rocking of said supporting member relative to said pedestal.

2,311,543

ILLUMINATING APPARATUS OF THE GASEOUS GLOW TUBE TYPE

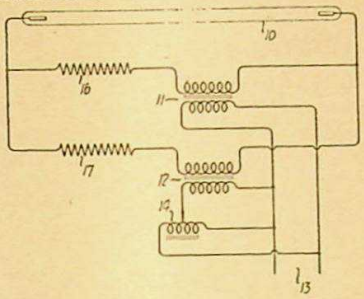
Robert S. Horn, San Francisco, Calif., assignor of one-half to Clyde L. Hunsicker, San Francisco, Calif.

Application April 29, 1940, Serial No. 332,198

4 Claims. (Cl. 176—124)

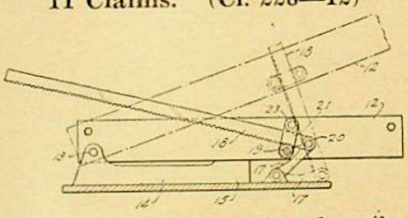
1. In electrical illuminating apparatus, a gaseous glow discharge tube having two terminals, and two sources of alternating potential of like frequency connected to the two terminals of the tube, one source serving to continuously supply a potential to maintain ionization of the gas within the tube without sufficient current flow to illuminate the tube to a substantial degree, and the

other serving to supply sufficient current to the tube to illuminate the same and being of insuffi-



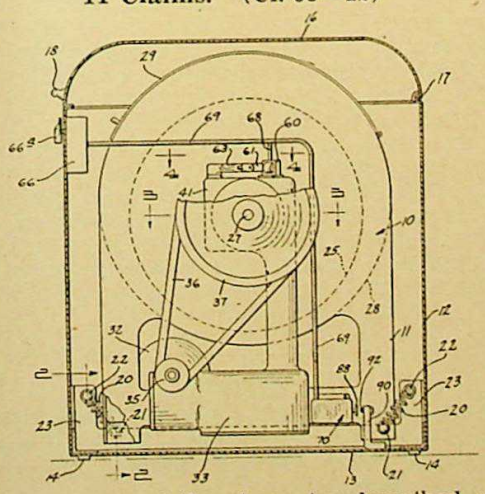
cient potential to of itself maintain the tube illuminated.

2,311,544
HOIST
Monte E. Hover, Culver City, Calif.
Application October 21, 1940, Serial No. 362,002
11 Claims. (Cl. 228—12)



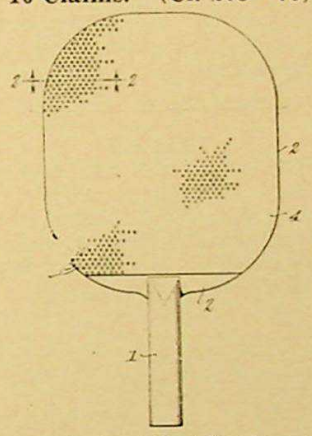
1. A device of the character described, which includes: a bed; ladder-supporting means pivotally attached to said bed; a swivel link pivotally attached to said bed; a rack pivotally attached to said swivel link; and gear means attached to said ladder-supporting means adapted to cooperate with said rack to rotate said ladder-supporting means.

2,311,545
CONTROL FOR WASHING MACHINES
John R. Hurley, Wheaton, and John P. Beattie, Oak Park, Ill., assignors to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application May 5, 1939, Serial No. 271,846
11 Claims. (Cl. 68—12)



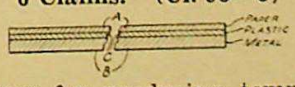
1. Apparatus of the character described, comprising in combination, a base structure, a frame mounted on said base, fabric cleansing machinery flexibly supported on said frame for bodily movement in all directions and including a rotatable cylinder, and disengageable driving means for rotating said cylinder, a casing structure supported on the base for enclosing the fabric cleansing machinery, and control means for said driving means comprising an electrical circuit including an electrically energized device operably connected to said disengageable driving means and a switch for controlling said circuit adapted to be actuated in response to a predetermined amount of movement of said machinery relatively to one of said structures for effecting actuation of said device and causing temporary disengagement of said cylinder driving means, said control means including time delay means for causing said control means to operatively reengage said driving means after the lapse of a predetermined interval of time.

2,311,546
TABLE TENNIS RACKET
Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 21, 1940, Serial No. 371,163
10 Claims. (Cl. 273—76)



1. A game bat or racket having on its hitting surface a multiplicity of hollow resilient projecting knobs the outer ends of which are closed.

2,311,547
PROCESS FOR PRODUCING ACCURATE REPLICAS AND PRODUCT
Miller Reese Hutchison, New York, N. Y., assignor to Mock-Up Incorporated, a corporation of New Jersey
Application July 12, 1941, Serial No. 402,128
6 Claims. (Cl. 95—5)



6. A process for producing templates which includes making an accurate layout of the template on paper which has been adhered to a backing of metal stock in a manner to render the paper immune to longitudinal and transverse dimensional variations due to atmospheric moisture, placing a photo-sensitive surface, presented by a backing sheet of light transmitting material, in face contact with the surface presenting the template layout, exposing the photo-sensitive surface to light transmitted through the backing sheet and actually reflected from the surface presenting the template layout, processing the exposed photo-sensitive surface to produce a reflex negative of the template layout, locating the reflex negative in face contact with a photo-sensitive surface presented by a sheet of template stock, exposing said last mentioned photo-sensitive surface to light passing through the light transmitting backing sheet and the reflex negative to produce, after processing said photo-

sensitive surface, an accurate replica of the template layout on the template stock, and thereafter fabricating the template stock in accordance with the layout photographically transferred thereto, the backing sheet of light transmitting material and the template stock being such as to maintain their respective photo-sensitive surfaces immune to longitudinal and transverse dimensional variations throughout the processing steps and immune also to longitudinal and transverse dimensional variations due to atmospheric moisture.

2,311,548

POLYMERS OF AMIDES OF ALPHA-METHYLENE MONOCARBOXYLIC ACIDS

Ralph Albert Jacobson, Landenberg, Pa., and Charles Joseph Mighton, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 28, 1939, Serial No. 270,652

1 Claim. (Cl. 260—84)

The product of the interpolymerization of 20 parts of N-methylmethacrylamide with 80 parts of methyl methacrylate.

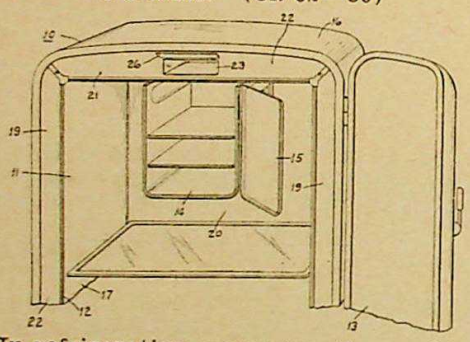
2,311,549

REFRIGERATION APPARATUS

Paul E. James, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application April 3, 1942, Serial No. 437,465

4 Claims. (Cl. 62—89)



1. In refrigeration apparatus, the combination of a refrigerator cabinet comprising inner and outer shells, heat insulation between the shells, said shells defining the bottom, rear, side and top walls of a food-storage compartment, the portion of the outer shell defining said top wall being exposed to the ambient atmosphere surrounding the cabinet, an access opening at the front of the food-storage compartment, a door for closing the access opening, a cooling element adjacent the top of the food-storage compartment and a butter container disposed directly above said cooling element in the heat insulation in the top wall of said food-storage compartment.

2,311,550

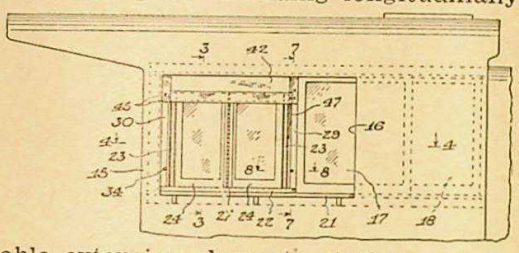
LOCOMOTIVE STORM WINDOW

John B. Kauffman, Janesville, Wis.

Application October 21, 1940, Serial No. 362,044

7 Claims. (Cl. 160—127)

1. In combination with a cab wall having a window opening therein and guide grooves adjacent the upper and lower edges of said opening and further having an outwardly projecting arm rest adjacent the lower edge of said opening, a storm window for said opening comprising a series of hingedly connected sash members foldable into plaited relation and including end sash members and intermediate sash members, said end sash members normally projecting outwardly over said arm rest, and posts hingedly connected to said respective end sash members at the side edge portions thereof adjacent said window opening and having ends mounted in said grooves, said posts including longitudinally ad-



justable extension elements at their lower ends slidably engageable in the lower guide groove and supporting said end sash members at an adjusted elevation to pass over said arm rest, said posts being slidable relatively together along said grooves to contract said sash members into approximately parallel plaited relation.

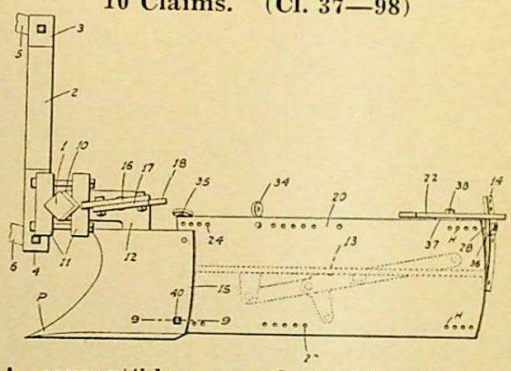
2,311,551

IMPLEMENT COMBINATION

Royal B. Laird, Merced, Calif.

Application February 25, 1941, Serial No. 380,411

10 Claims. (Cl. 37—98)



4. A convertible ground working implement comprising a rigid structure adapted for connection to a draft device, said structure including a longitudinal rearwardly extending beam, two initially separate ground working blades disposed on edge on opposite sides of the longitudinal beam, said blades being arranged for connection with said structure, selectively in rearwardly diverging relation to said beam as a ditcher, in rearwardly converging relation to said beam as a ridger, or, with adjacent ends connected, in transverse relation to said beam as a scraper, and instrumentalities consisting essentially of a single set of connector elements adapted to be used in common to rigidly but removably connect said blades with said structure in any one of said positions relative to the beam.

2,311,552

HAIR CUTTING OR CLIPPING MACHINE

Edgar Harold Law, Kingsbury, England, assignor to Rolls Razor Limited, London, England, a British company

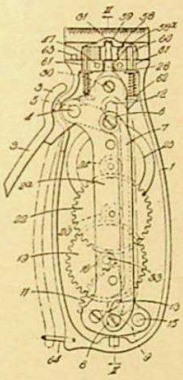
Application December 31, 1938, Serial No. 248,694

In Great Britain January 7, 1938

14 Claims. (Cl. 74—133)

1. In a shaving or hair clipping device having a casing or handle, a rotary member adapted to impart in known manner reciprocating motion to a movable cutter, which rotary member is preferably a flywheel, rotating means for rotating

said rotary member, a manual operating lever projecting from said casing for actuating said rotating means and said rotary member, said rotating means comprising a toothed quadrant arranged movably upon a pivot so that its toothed periphery is adapted to oscillate in an arcuate path, which toothed periphery is in mesh with a pinion which is so associated with a one-way clutch device that it can transmit power in only one direction of its rotation, a crank rigidly associated with said quadrant and adapted by its partial revolution in one direction and the other to cause oscillating partial rotation of the quadrant, a connecting lever connected to said crank and also so connected to said manual op-



erating lever that reciprocation of the manual operating lever at constant speed causes alternating forward and backward partial rotation of the quadrant at varying speeds, the arrangement being such that during the part of this alternating partial rotation that is conveyed to the said rotary member the said crank is moving with a compound motion both longitudinally of the said connecting lever and transversely thereof in such a manner that there is imparted to the rotary member a continuously increasing or accelerated angular movement measured in degrees for each consecutive degree of angular movement of the operating lever during the operative stroke of the latter.

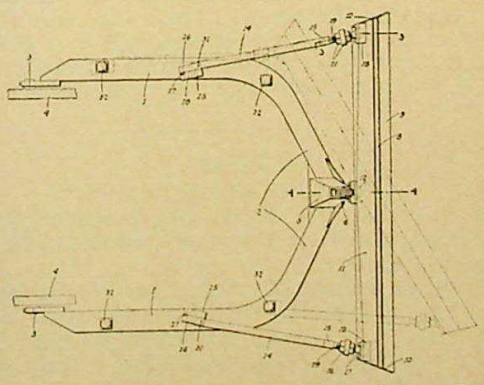
2,311,553

PUSH GRADER

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation

Application November 7, 1941, Serial No. 418,157

10 Claims. (Cl. 37—144)



1. A push grader comprising a frame having transversely spaced side beams, a grader blade unit disposed transversely ahead of said frame, means pivotally mounting the grader blade unit intermediate its ends on the frame for angling movement in a horizontal plane, a pair of thrust arms, means connecting said arms at the front end on opposite end positions of the grader blade unit, and ball and socket means to connect the thrust arms at the rear end at different selective points on the side beams lengthwise of the latter; said ball and socket means comprising one member of a ball and socket on the rear end of each arm, and a plurality of longitudinally spaced cooperating ball and socket members mounted on the corresponding side beam, said one member being adapted to be engaged with any one of said cooperating members on said corresponding side beam.

2,311,554

WATER-DISPERSIBLE FAT-SOLUBLE VITAMIN COMPOSITION AND PROCESS OF PREPARING THE SAME

Sol T. Lipsius, Newark, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application July 7, 1939, Serial No. 283,139

12 Claims. (Cl. 167—81)

1. A readily water-dispersible composition of matter comprising a solution of a fat-soluble vitamin concentrate in ethyl alcohol, said solution containing a relatively small amount of only the ethanol-soluble portion of an edible gum.

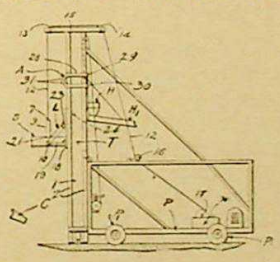
2,311,555

HOIST FOR MATERIALS

Donald MacIsaac, Downey, Calif.

Application March 17, 1941, Serial No. 383,763

8 Claims. (Cl. 214—120)



1. A hoist comprising: a tower having vertical guides thereon, a skip having shoes movable over certain of said guides, means tiltably connecting said skip with said shoes for bodily tilting the skip in an unloading operation, means for pivotally connecting said skip with said shoes at points vertically spaced from the tilting axis of the skip, means for locking the skip in load carrying position and operable to release and permit the tilting of the skip in an unloading operation, and means for elevating and lowering said skip.

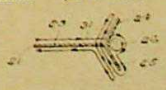
2,311,556

SLIDE FASTENER

Isaac Marinsky, Providence, R. I.

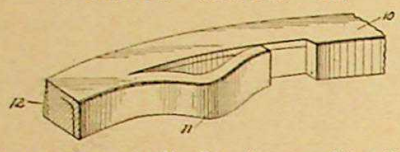
Application July 14, 1941, Serial No. 402,340

4 Claims. (Cl. 139—384)



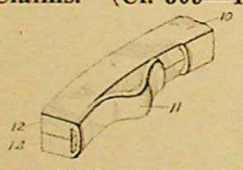
1. A slide fastener element comprising a tape having a flat portion, two longitudinal portions forming a bifurcated edge, and a link carrier warp thread of large diameter positioned between said two longitudinal portions at the inner junction of the bifurcated edge, said portions and said link carrier warp thread of large diameter being integrally woven together, and closure links mounted on said large diameter link carrier warp thread, whereby said closure links snugly seat into the juncture of the bifurcated edge.

2,311,557
PISTON RING
William S. Mason, Norfolk, Va.
Application December 9, 1941, Serial No. 422,193
4 Claims. (Cl. 309—44)



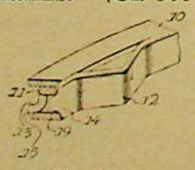
1. For use in a cylinder in combination with a reciprocating piston provided with a packing ring groove, a radially expansible resilient metal split piston ring, said ring being substantially rectangular in shape and having its outer curved side formed and arranged to seal the wall of said cylinder and having its inner periphery provided with a plurality of elongated annularly extending radially expansible spring fingers, said spring fingers comprising an axially folded extension from the inner peripheral edge of said ring.

2,311,558
PISTON RING
William S. Mason, Norfolk, Va.
Application July 20, 1942, Serial No. 451,600
12 Claims. (Cl. 309—44)



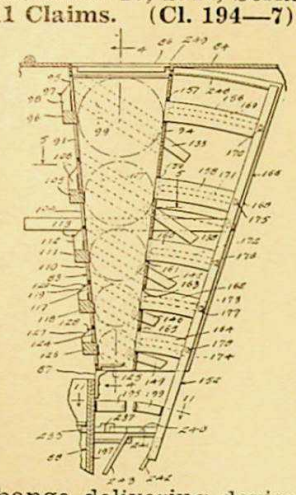
1. For use in a cylinder in combination with a reciprocating piston provided with a piston ring groove, a piston ring comprising an elongated band of resilient metal doubled upon itself longitudinally forming the upper and lower sides of the ring and its edges forming the outer periphery and its medial portion forming the inner periphery and spacing said sides apart axially, said inner periphery being provided with radially expansible spring fingers adapted to seat on the bottom of the groove in said piston and urge the periphery of the ring against the wall of said cylinder, and one at least of said sides being provided with a flange formed and arranged to maintain the axially spaced arrangement of the sides outwardly of the inner periphery of the ring and provide bearing surface for said spring fingers.

2,311,559
PISTON RING
William S. Mason, Norfolk, Va.
Application July 24, 1942, Serial No. 452,123
9 Claims. (Cl. 309—45)



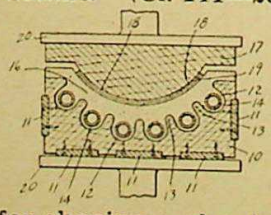
1. For use in a cylinder in combination with a reciprocating piston provided with a piston ring groove of given radial depth, a piston ring comprising an elongated band of resilient metal doubled upon itself longitudinally forming the upper and lower sides of the ring and its edges forming the outer periphery and its medial portion forming the inner periphery, said outer periphery being formed and arranged to seal the wall of said cylinder and said inner periphery being provided with radially expansible spring fingers, said spring fingers being integrally connected to said upper and lower sides and seated on their inner periphery and adapted to urge the outer periphery of the ring against the wall of said cylinder when the piston is disposed therein.

2,311,560
COIN CHANGING DEVICE
Jack S. Millard, San Antonio, Tex.
Application November 18, 1941, Serial No. 419,639
11 Claims. (Cl. 194—7)



1. A coin change delivering device comprising a plurality of vertically disposed coin magazines, a coin delivering slide below each magazine, a coin guide for receiving a coin to be changed, a series of vertically spaced apart combined plungers and contact members each engageable with an edge of a coin of predetermined value inserted in said guide, means slidably supporting said plungers, means connecting each plunger with a slide, a second series of vertically spaced apart combined plungers and contact members, each one of said second series of plungers being disposed in confronting and spaced relation with respect to a plunger of said first series, said second series of plungers being spaced from said first series of plungers a distance such that a coin will wedge between a plunger of said first series and a confronting plunger of said second series of plungers, a motor operator connected with said second series of plungers, means connecting one side of said operator with said first series of plungers, means connecting the other side of said operator with said second series of plungers, a coin wedging between a pair of confronting plungers of each series constituting a bridging element for closing the electric circuit to said operator, and a coin receiver below said guide.

2,311,561
HEATED MOLD FORM
John A. Miller, De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application August 31, 1940, Serial No. 354,972
4 Claims. (Cl. 144—256)



1. A form for shaping a glue treated plywood veneer panel under heat and pressure, compris-

ing a wooden caul, a cast metal forming surface molded therein for receiving said panel, a plurality of heating members imbedded in said metal, and a conforming member adapted to press and conform said panel to said metal forming surface.

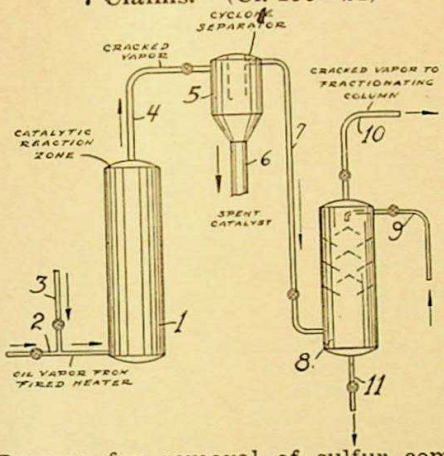
2,311,562

REFINING OF MINERAL OILS

Harold J. Moyer, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 1, 1941, Serial No. 386,253

7 Claims. (Cl. 196—24)



1. Process for removal of sulfur compounds from hydrocarbon vapors produced in catalytic cracking operations which comprises contacting said hydrocarbon vapors with a relatively high boiling liquid hydrocarbon having a gravity in the range from about −5° A. P. I. to about +10° A. P. I. at a temperature in the range from about 600° F. to 850° F.

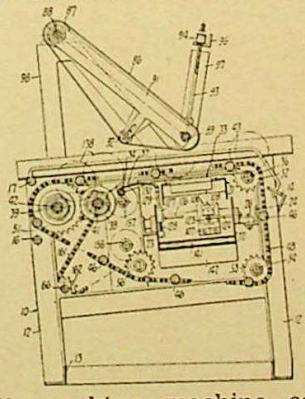
2,311,563

FRUIT MARKING MACHINE

Harold J. Mumma, Glendale, and Zenas Leonard, Burbank, Calif.

Application September 16, 1940, Serial No. 356,924

12 Claims. (Cl. 101—114)



7. A fruit marking machine comprising a frame, a series of marking stations on said frame, each station including a stencil cut to the desired indicia, a tank disposed below said marking station, a spray head bar mounted for back and forth movement within said tank, said bar having a spray head thereon for each of said marking stations, means for supplying marking ink and air under pressure to said bar, said bar having passage means communicating with each of said spray heads, and individual adjusting means for each of said spray heads mounted in said tank, each of said adjusting means being responsive to the travel of fruit along the associated marking station for rendering the associated spray head operative.

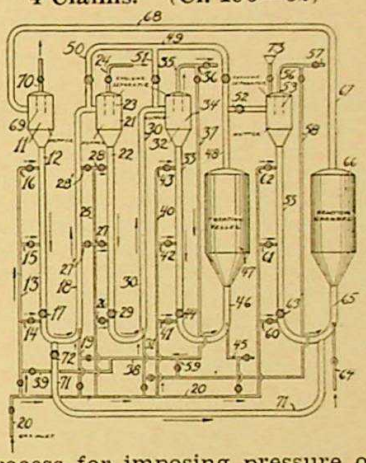
2,311,564

HANDLING FINELY DIVIDED MATERIALS

John C. Munday, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 2, 1940, Serial No. 364,085

4 Claims. (Cl. 196—52)



1. A process for imposing pressure on finely-divided solids which comprises flowing a stream of said finely-divided solid alternately upwardly and downwardly in a sinuous path, maintaining each downwardly flowing stream at a materially higher density than the next succeeding upwardly flowing stream whereby static pressure developed at the bottom of said downwardly flowing streams is substantially greater than the static pressure at the bottom of the next adjacent upwardly flowing stream and transmitting excess static pressure from the bottom of each preceding downwardly flowing stream to the top of the next succeeding downwardly flowing stream to build up successive increments of pressure on said finely-divided solid.

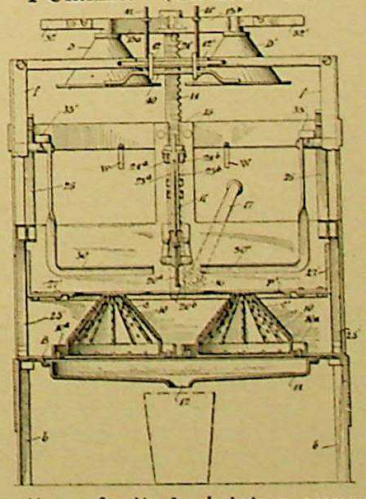
2,311,565

FRUIT DEJUICING APPARATUS

Talbert G. Nelson, New York, N. Y.

Application June 7, 1941, Serial No. 396,988

4 Claims. (Cl. 100—42)



1. In a citrus fruit de-juicing apparatus, the combination of a pair of male cone members stationarily mounted in horizontal spaced relationship and a pair of complementary shaped

female cone members movably mounted in corresponding horizontal spaced relation and normally held at a rest position at a horizontal level above the said male cones with the cone axes in substantial vertical alignment, means to move the said female cone members simultaneously from said rest position vertically downwardly to nesting position on said male cone members and to return the same to said rest position, a knife means having a cutting edge extending along a V-shaped notch disposed in a vertical plane at right angles to and midway between the cones of the two said pairs of cone members at a horizontal level below the rest position of said female cone members and above the said male cone members with the said cutting edge facing upwardly, means to dispose a citrus fruit on said knife means, means on said female cone members to engage the upper surface of said citrus fruit as the said female cone members are moved downwardly, thereby to force the said citrus fruit over the said knife edge cutting the same in half, and means below the said knife means but above the said stationary male cone members to direct the cut halves of the said fruit to a horizontal squeezing position under the descending female cone members and over the said male cone members.

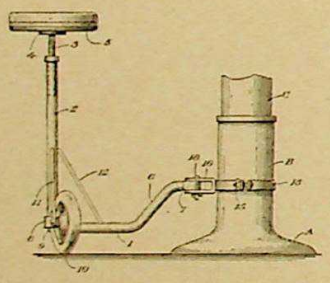
2,311,566

CHAIR ATTACHMENT

Sidney H. Newton and Benjamin T. Griner, Savannah, Ga.

Application February 10, 1941, Serial No. 378,278

1 Claim. (Cl. 155—81)



A stool attachment for a barber's chair or the like, comprising a bar bent substantially midway its ends to provide an upright and an attaching arm extending at a right angle from the upright, an upholstered seat adjustably associated with the upper end of the upright, parallel arranged horizontally extending carriage strips fixed midway their ends to the upright, axles secured to and bridging the ends of the strips, brace rods between the upright and the outer ends of the axles and between the upright and the arm rubber tired wheels journaled on the axles, said strips being bent to provide outer end portions inclined in the general direction of the arm, said arm being bent substantially midway its ends to provide an upwardly inclined portion a bearing collar formed on the free end of the upwardly inclined portion, a sectional clamping band for attachment to the chair, a lining within the band to set up a frictional engagement with the chair, a substantially U-shaped bracket for receiving the collar between the arms thereof and fixed to the band, the arms of the bracket being horizontally disposed and having a plurality of registering openings along their length, and a pivot pin mounted in the collar and any pair of registering openings for pivotally and adjustably connecting the attaching arm to the bracket to allow travel of the seat in an arc about the chair.

2,311,567

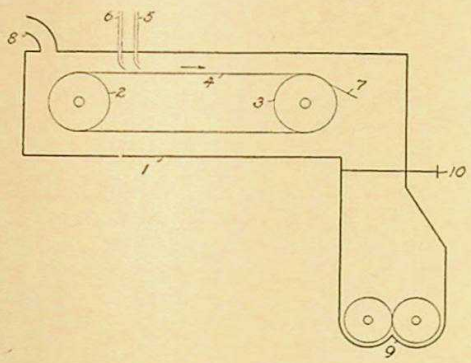
PROCESS OF CARRYING OUT POLYMERIZATIONS

Michael Otto, Oppau, Hermann Gueterbock, Ludwigshafen-on-the-Rhine, and Alfred Hellemanns, Oppau, Germany, assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana

Application March 8, 1938, Serial No. 194,608

In Germany March 11, 1937

6 Claims. (Cl. 260—90)



1. The process for continuously polymerizing a substance selected from the group consisting of isobutylene and vinyl isobutyl ether, which comprises continuously applying said substance in monomeric form as a freely flowing liquid to a relatively flat support, applying a solution of boron fluoride in a member of the group consisting of ethylene and propane to the liquid monomer on said support, continuously moving said support with the said materials carried thereon through a polymerizing zone thereby effecting polymerization of said monomeric substances to a from semi-solid to solid product in said zone, and continuously removing said product from said support.

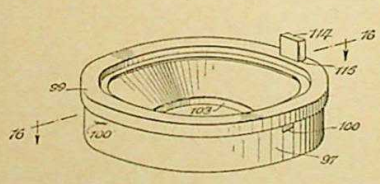
2,311,568

ASH RECEPTACLE

Roy W. Parkinson, Buffalo, N. Y., assignor to Fred C. Smith, Buffalo, N. Y.

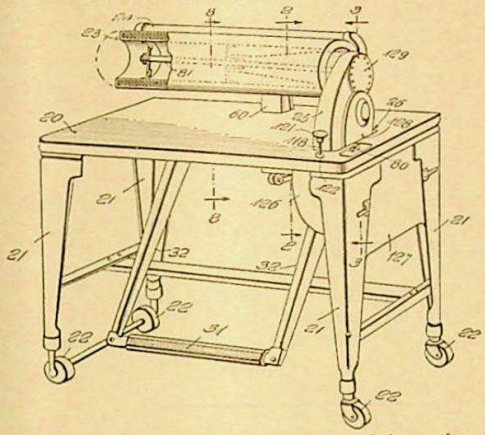
Application November 29, 1939, Serial No. 306,701

4 Claims. (Cl. 220—20.5)



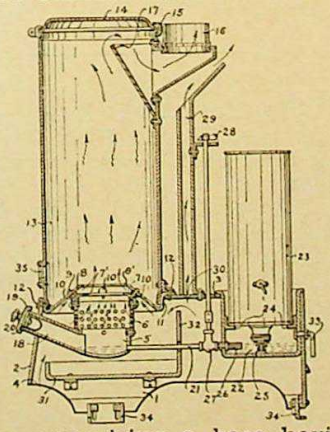
1. A closure for an ash receiver of the character described including a pan having a bottom wall and a side wall, a cover-piece which fits upon said pan and which is adapted to provide a tray, said cover-piece tapering toward an outlet, said bottom wall having a discharge opening which is located below and in close proximity to said outlet and which registers with said outlet, a pair of shutters located between said tray and bottom wall and pivotally mounted upon said bottom wall to slide thereon, said shutters cooperating to normally close said discharge opening and provide a bottom for said tray, an element which is operable to open said shutters to discharge the contents of said tray through said outlet and opening into said receiver and means located within said pan for connecting said element and said shutters.

2,311,569
IRONING MACHINE
Allen J. Patch, Ripon, Wis.
Application November 29, 1938, Serial No. 243,014
12 Claims. (Cl. 38—58)



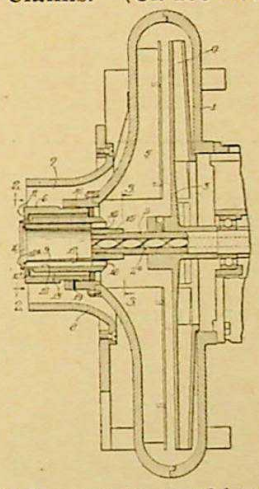
2. An ironing machine comprising, in combination, a rotatable roll, a shoe, a housing supporting said roll and swingable to move the roll into and out of operative engagement with the shoe, means for swinging said housing, a gear train within the housing connected to the roll, a motor mounted to effect movement relative to the gear train upon movement of the housing, a belt connecting said motor and gear train and adapted to be loosened by movement of the housing to disengage the roll from the shoe, and a device actuated by said means for disconnecting said gear train from the roll when the belt is loosened.

2,311,570
STOVE
Richard M. Pyle, Dallas, Tex.
Application July 15, 1938, Serial No. 219,467
13 Claims. (Cl. 126—93)



4. A stove comprising a base having a surrounding wall with means for admitting air into said base, a heating chamber supported on the base and extending upwardly therefrom, a burner cup within the base of appreciably smaller size than the heating chamber and having an upstanding perforated screen spaced from the walls of the base to admit primary air into the screen to support combustion, an inturned ring at the upper end portion of the screen, a baffle having its periphery joined directly to the periphery of the heating chamber and supported thereby, means connecting the baffle with the ring and supporting the burner cup and screen therefrom with said ring in slightly spaced relation from the baffle, said baffle having a central opening above the screen for upward flow of the products of combustion therethrough into the heating chamber, said baffle and ring being inclined upwardly in frustro-conical shape to direct secondary air within the base into the heated products of combustion flowing therethrough, said baffle projecting outwardly exteriorly from said screen and arranged at an angle thereto such as to localize heat deflection substantially on the fuel cup and on substantially the entire peripheral portion of the screen preheating the primary air passing therethrough.

2,311,571
OIL BURNER
Fred Ravnsbeck, Chicago, Ill., assignor to Ace Engineering Co., Chicago, Ill., a corporation of Illinois
Application May 3, 1941, Serial No. 391,629
4 Claims. (Cl. 158—77)

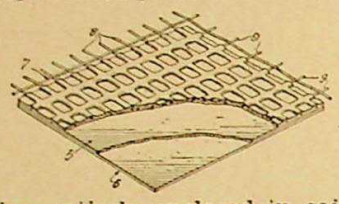


1. In an oil burner in combination, a rotary blower having an axially disposed air outlet nozzle and a hollow drive shaft providing an oil feed passage, a terminal cup fixed to the outer end of said shaft as a continuation of the oil feed passage thereof, the rotation of said shaft and cup serving to discharge oil centrifugally adjacent the air outlet nozzle, and a tubular member disposed in the space between the outer surface of said terminal cup and the inner surface of the blower nozzle, forming an annular passage around said cup communicating with the interior of the blower through which passage a portion of the air discharged by the blower flows, and means connecting said tubular member to the shaft for rotation therewith, said tubular member having an external, transaxial shoulder adjacent its outer end and the nozzle having an inwardly extending, annular flange, said tubular member and said nozzle being relatively adjustable in axial direction to vary the space between said shoulder and said flange for regulating the flow of air through the nozzle.

2,311,572
MATERIAL FOR WRAPPING PIPES AND FOR COVERING METALLIC SURFACES
Albert H. Reynolds, Berwyn, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois
Application May 4, 1940, Serial No. 333,321
5 Claims. (Cl. 154—44)

2. A composite material for use in protecting metallic surfaces and embodying therein a thin pliable plastic strip, a strip of open mesh textile fabric of relatively fine warp and weft threads on one side of said first strip and re-

inforcing the same against tearing, and a heavy grease like hydrocarbon base protective coating that is vapor and moisture proof and has a non-drying adhesive character as well as a high dielectric strength covering both sides of both strips and uniting them together, the warp and weft threads of said fabric being so spaced apart as to impart an open mesh pattern for the fabric, said



threads being entirely enclosed in said coating and producing on the fabric side of the material an indented and ridged pattern for the surface thereof that corresponds to that of said threads and which surface will stick to surfaces such as on the other side of the material when engaged therewith but will release therefrom when said surfaces are being manually separated.

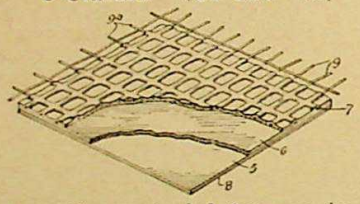
2,311,573

MATERIAL FOR WRAPPING PIPES AND FOR COVERING METALLIC SURFACES

Raymond A. Shoan, Chicago, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois

Application May 4, 1940, Serial No. 333,333

5 Claims. (Cl. 154—44)



1. A composite material for use in protecting metallic surfaces and embodying therein a flexible mineral fibrous sheet and a relatively thin flexible non-fibrous, plastic imperforate sheet having considerable dielectric and tensile strength but not in itself totally vapor and moisture proof, a heavy grease-like petrolatum base protective coating that is vapor and moisture proof and has a non-drying adhesive character as well as a high dielectric strength covering one side of the first mentioned sheet and uniting it to the second mentioned sheet, and a relatively open mesh textile fabric of warp and weft threads enclosed in said coating and reinforcing said sheets against tearing and coacting therewith in strengthening the material as a whole and forming a surface having raised portions following the pattern of said threads on one side thereof that will stick to surfaces such as on the other side of the material when engaged therewith, but will release therefrom when said surfaces are being manually separated.

2,311,574

BATTERY CHARGING EQUIPMENT

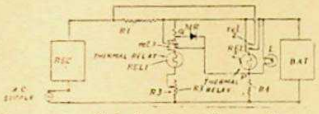
Edward Arthur Richards, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application November 8, 1941, Serial No. 418,345

In Great Britain December 7, 1940

4 Claims. (Cl. 171—314)

1. A device for regulating the automatic charging of a secondary battery, comprising: a resistance in the charging circuit shunted by a pair of normally-open contacts, to furnish a full charging when the contacts are closed and a trickle charging when they are open; a relay for closing said contacts when it is operative, shunted by a pair of normally-open contacts so as to be operative when the contacts are open and released when the contacts are closed; a second relay for closing said second pair of contacts when it is operatively, connected across the battery in series



with a resistance which is also shunted by said second pair of contacts, so as to operate when the battery attains a predetermined maximum voltage but to release only when the battery has fallen to a predetermined minimum voltage; and a rectifier in the connection between the two relays which exists by reason of their common connection to one of the second pair of contacts.

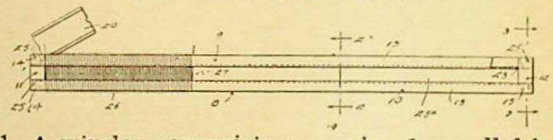
2,311,575

WINDER IMPLEMENT

Joseph Robinson, Chicago, Ill.

Application April 28, 1941, Serial No. 390,855

3 Claims. (Cl. 112—9)



1. A winder comprising a pair of parallel bars, each bar being U-shaped in transverse section and the open sides of said bars being outwardly directed and the bights thereof in confronting relation, each bar having a pair of slots through the bight thereof, one adjacent each end, a pair of end bars disposed one at each end of said parallel bars through adjacent slots in the latter and between the opposite legs of said parallel bars, and means securing said end bars between the legs of said parallel bars.

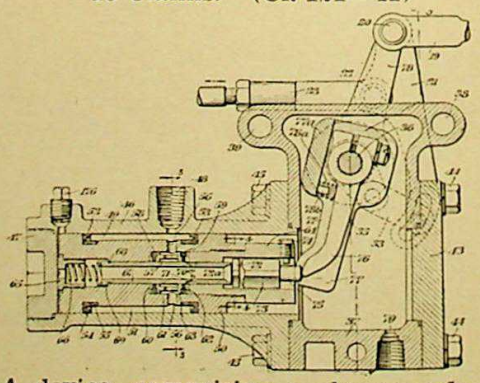
2,311,576

BOOSTER SYSTEM

Edward A. Rockwell, Forest Hills, N. Y., assignor to General Auto Parts Corporation, a corporation of Delaware

Application October 12, 1938, Serial No. 234,637, now Patent No. 2,265,817, dated December 9, 1941, which is a division of application Serial No. 28,699, June 27, 1935, now Patent No. 2,136,638, dated November 15, 1938. Divided and this application January 4, 1940, Serial No. 312,357. In Great Britain June 11, 1936

13 Claims. (Cl. 121—41)



1. A device, comprising a plunger adapted to be moved by fluid under pressure differing from the atmosphere to apply power, a work-perform-

ing element associated therewith, a manually movable pressure liquid valve located there-within, said plunger having a spring support producing an increasing resistance to the movement of the plunger to produce an increasing reaction on the manually movable valve with the increasing pressure on the plunger, and manual operating means having a connection to said valve and a connection to said plunger so as to coordinate the travel of the plunger with the manual operating means.

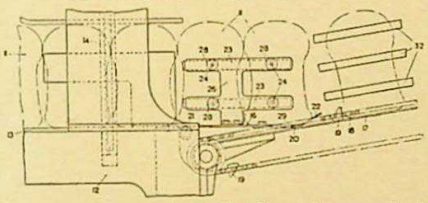
2. A device comprising an actuator casing having a liquid inlet port, a piston actuator therein, a work-performing element associated therewith, an annular chamber on the interior of the actuator for receiving the liquid, and a T-shaped annular resilient sealing means at the opposite ends of said chamber, having an annular means for clamping each of the two sealing means so as to force at least a portion of each of them towards the interior of the actuator, said sealing means having areas on their interiors smaller than their exteriors.

2,311,577

MECHANISM FOR DELIVERING ARTICLES FROM MACHINES

Alfred German Rose, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company

Application March 5, 1941, Serial No. 381,814
In Great Britain April 29, 1940
10 Claims. (Cl. 198—23)



1. An apparatus for discharging articles from a machine operating on the articles, comprising a conveyor having a series of spaced transverse pusher bars, an article-supporting surface disposed below the pusher bars, a delivery plate arranged to receive the articles and along which the articles pass to the article-supporting surface of the conveyor, the delivery plate being so disposed that it extends over the conveyor in the same general direction as that in which the articles travel on the conveyor and lies with its lower forward edge normally in close proximity to said surface so as to form with said surface a substantially continuous surface, and means for rocking the delivery plate about an axis parallel to and extending transversely of the said surface following the delivery of an article on to said surface to raise the forward edge of the delivery plate so as to allow a pusher bar of the conveyor to move into engagement with the rear face of each article delivered, said rocking means being arranged to maintain the forward edge of the delivery plate in its elevated position until the pusher bar has moved clear of the path taken by the lower forward edge of the next succeeding article as the delivery plate returns to its normal level.

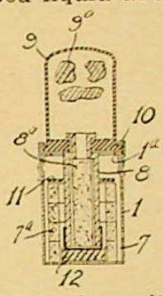
2,311,578

FLUID CONTAINER

William H. Rose, Jersey City, N. J., assignor to Stanco Incorporated, a corporation of Delaware

Application November 24, 1939, Serial No. 305,948
5 Claims. (Cl. 128—194)

5. A container for liquids, comprising a casing having an opening, an annular unit comprising a tubular cylindrical core member of compressible absorbent material extending from adjacent the opening longitudinally within the casing adapted to contain absorbed liquid and resting upon the



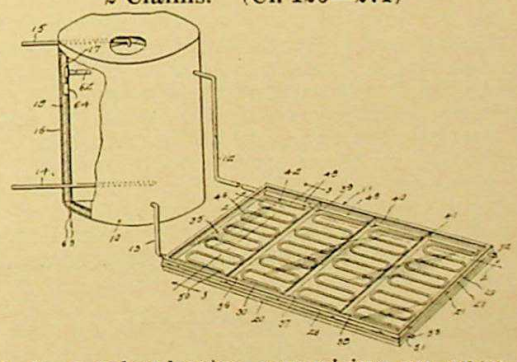
bottom of the casing, the unit including an annular surface member for the end of the core member adjacent the casing opening whereby a dispenser tube can be inserted through the annular unit to pick up liquid released from the core member.

2,311,579

SOLAR HEATER

Clifton A. Scott, North Miami Beach, Fla., assignor, by direct and mesne assignments, to Sun-Ray Heater Company, North Miami Beach, Fla., a copartnership.

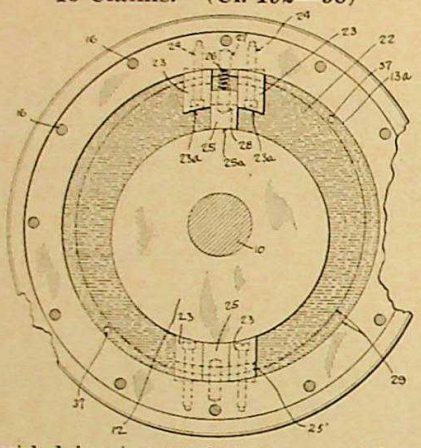
Application April 17, 1940, Serial No. 330,215
2 Claims. (Cl. 126—271)



1. In a solar heater comprising an open top metallic housing having bottom, side, and end walls, a lower heat insulation member disposed over the upper face of said bottom and bearing against the inner faces of said walls, upstanding heat insulating strips, seated on said lower member and bearing against the inner faces of said walls, the upper parts of said walls being bent to retain the said strips against the walls and the strips in contact with said member, partitions coacting with said member and strips to form open top parallel compartments, a cold water manifold extending through said end walls, compartments, and partitions and disposed in proximity to one of the side walls, a hot water manifold extending through said end walls, said compartments and partitions and disposed in proximity to the other side wall, said manifolds positioned on said member, a sheet like heat conducting element in each compartment below the top thereof and provided respectively with a continuous depending portion forming a groove and with a depending part at each end, said elements engaging said strips and partitions, the said portions and parts of said elements being in contact with said member to thereby space the major portion of said elements from said member to form dead air spaces, means for connecting the depending parts of said elements to the inner sides of said manifolds, tubes secured

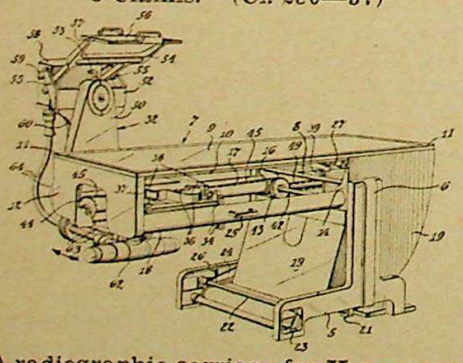
in and extending above the groove of said elements, each tube connected at one end to an opening into the cold water manifold and at its other end connected to an opening into the hot water manifold, and a closure for said housing including a transparent member disposed over said compartments.

2,311,580
FLUID DRIVE
Samuel N. Silverstone, Bridgeport, Conn.
Application December 13, 1941, Serial No. 422,819
13 Claims. (Cl. 192—58)



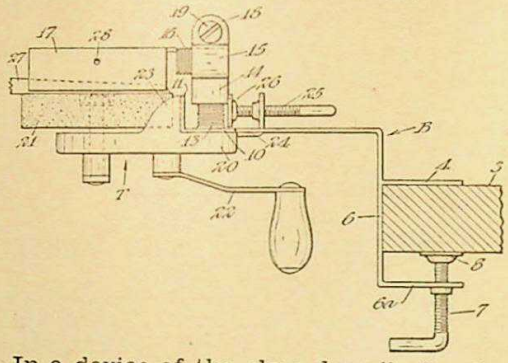
1. A fluid drive transmission comprising a rotatable shaft; a disk eccentrically mounted on the shaft to rotate therewith; a driven casing mounted on the shaft for rotation with respect thereto, said casing having a recess therein forming a chamber concentric with the shaft and surrounding the disk; driving fluid in said chamber to be acted upon and compressed by said disk and drive said casing; and means including a ring valve for controlling the flow of fluid in said chamber to vary the amount of compression of said fluid and the torque and speed of the casing.

2,311,581
X-RAY APPARATUS
Alfred Simmon, Long Island City, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 18, 1941, Serial No. 383,897
3 Claims. (Cl. 250—57)



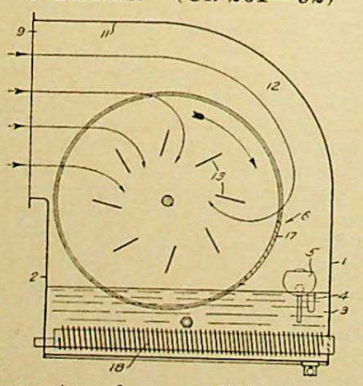
1. A radiographic carriage for X-ray apparatus comprising a support pivotally connected to said carriage, an X-ray tube assembly pivotally connected to the extremity of said pivoted support, a fluorescent screen frame pivotally connected to said support and having a fluorescent screen pivotally connected thereto, and an electric transformer for supplying electrical energy to said X-ray tube pivotally connected to said fluorescent screen frame to form a counterweight for said frame and the fluorescent screen carried thereby in all positions thereof about its pivot and movable with said fluorescent screen and X-ray tube assembly about the pivotal connection of said support to said carriage.

2,311,582
BRACKET FOR GRINDING WHEELS
Bogoia Strezoff, Minneapolis, Minn.
Application January 22, 1942, Serial No. 427,741
2 Claims. (Cl. 51—125)



1. In a device of the class described, a bracket having an abutment thereon to engage the frame of a tool such as a hand grinder having a screw clamp thereon, a threaded post on said bracket adjacent said abutment opposite to that side of said abutment engaged by said grinder frame, a work supporting sleeve threaded on said post and engageable by the screw of said clamp to clamp said grinder to said bracket to lock said sleeve against rotation on said post.

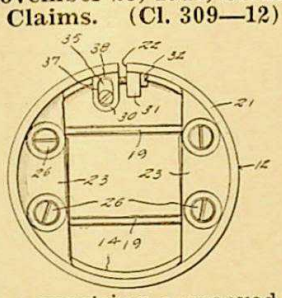
2,311,583
MEANS FOR CONDITIONING AIR
Nils Olof Harry Styrén, Enköping, Sweden, assignor to Aktiebolaget Enköpings Verkstäder, Fanna, Enköping, Sweden
Application July 12, 1939, Serial No. 283,950
In Sweden June 3, 1938
5 Claims. (Cl. 261—92)



1. In apparatus for conditioning air, having a housing, a drum rotatably journalled in said housing, a water bath in the bottom portion of said housing and filter surface portions upon said drum adapted to be dipped into said water bath during the rotation of said drum and take up water therefrom, there being means for giving the water bath a desired temperature, and means for driving a current of air through the moistened filter surface portion in order to purify, moisten and adjust the temperature of the treated air, the feature which consists in having the filter material of said drum consist of metal in the

form of a permeable mass which is so conditioned and distributed that the major part of the heat exchanged between the air and the water bath is transmitted by the metallic masses of said filter material while only the remaining minor part of said heat is transmitted directly by the water taken up by the rotating drum from the water bath, the air intake of said drum being so adapted and directed in relation to the drum that the air current is blown against the outside of the circumference of the drum while developing forces that exert a rotating action on the drum, and the air discharge of the drum being arranged axially in relation to the drum.

2,311,584
EXPANSIBLE PISTON
Walter G. Swift, Flint, Mich.
Application November 25, 1941, Serial No. 420,416
4 Claims. (Cl. 309—12)

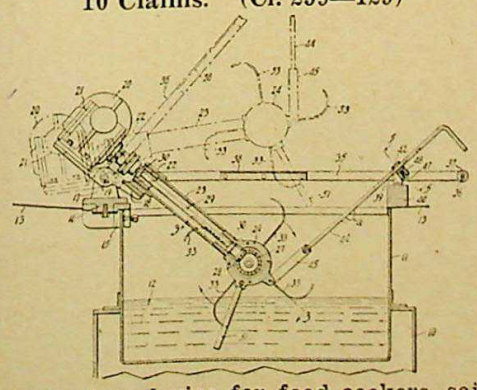


1. A piston comprising a grooved head, a pair of wristpin bearings, means dependingly supporting said bearings from said head, a resilient split expandible skirt encompassing said bearings, a pair of diametrically opposed inwardly projecting flanges integral with said skirt, means detachably securing said skirt to said bearings, a pair of opposed inwardly projecting ears carried by said skirt on opposite sides of the split portions thereof, and means engaging said ears for holding said skirt in a predetermined expanded position.

2,311,585
PARASITICIDE
William P. ter Horst, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 23, 1941, Serial No. 408,109
4 Claims. (Cl. 167—30)

1. fungicidal and insecticidal preparation containing as an active essential ingredient a salt of an N-aryl hydroxylamine with an acid.

2,311,586
STIRRER FOR FOOD COOKERS
Guy R. Tyler, Akron, Ohio
Application August 9, 1941, Serial No. 406,148
10 Claims. (Cl. 259—129)

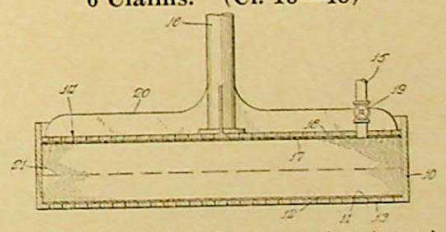


1. A stirring device for food cookers, said device comprising a gear case positionable over the fluent cooking medium, respective shafts extending horizontally in opposite directions from said gear case, paddles extending radially from said shafts, and means for rotating said shafts about their own axes in opposite directions, the end portions of said paddles on one of said shafts being arcuately curved in one direction and the paddles on the other shaft being curved in the opposite direction.

2,311,587
PLASTICIZED POLYAMIDE
Gordon T. Vaala, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 27, 1940, Serial No. 337,547
3 Claims. (Cl. 260—33)

1. A composition of matter comprising a synthetic linear polyamide of intrinsic viscosity at least 0.4, plasticized with hydroabietyl alcohol, said polyamide being the reaction product of a polymer-forming composition which comprises reacting material selected from at least one of the groups consisting of (*a*) monoaminomonocarboxylic acids, and (*b*) mixtures of diamine with dibasic carboxylic acid.

2,311,588
METHOD OF MAKING REFRACTORY INSULATING BLOCKS
Paul S. Denning, Joliet, Ill., assignor to F. E. Schundler & Co., Inc., Joliet, Ill., a corporation of Illinois
Application June 14, 1940, Serial No. 340,454
6 Claims. (Cl. 18—48)

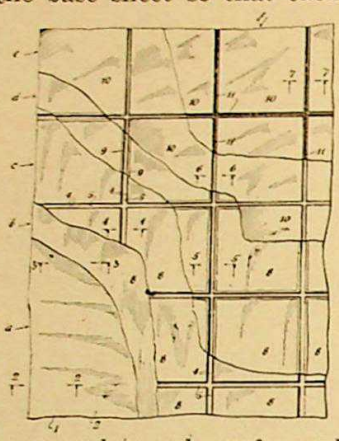


1. The method of making a refractory insulating block or the like which comprises preparing a relatively thin slurry containing exfoliated vermiculite in relatively thin flakes, diatomaceous earth and hydrated lime, introducing the slurry into a mold having a filter face and withdrawing the water in the slurry through the filter face while the slurry is in a relatively quiescent state to cause the vermiculite flakes to collect progressively at the filter face of the mold in oriented and felted relationship with the flakes lying substantially parallel to said filter face and while withdrawing the water excluding the entrance of air to replace the water and instead filling the voids left by the water with solid material, and then subjecting the molded material to heat to produce a substantial reaction between the lime and diatomaceous earth to form calcium silicate to bond the vermiculite together.

2,311,589
METHOD OF MAKING SCORED WALLBOARD
Harry Feder, Jackson Heights, N. Y., assignor to Barclay Manufacturing Co. Inc., New York, N. Y., a corporation of New York
Application June 26, 1941, Serial No. 399,953
7 Claims. (Cl. 41—17)

1. The method of manufacturing decorated

wallboard which includes, spreading a primer coat onto the finished surface of a fibrous base sheet by means of a doctor blade, and thereafter cutting spaced grooves through the primer coat and into the base sheet so that each groove is



defined by a curved trough surface whose ends join and are tangent to curved shoulder surfaces whose extreme ends merge into and are tangent to the adjacent primer filled flat surfaces of the wallboard.

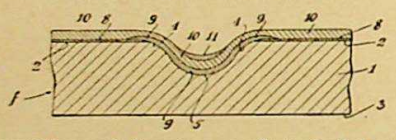
2,311,590

SCORED WALLBOARD

Harry Feder, Jackson Heights, N. Y., assignor to Barclay Manufacturing Co. Inc., New York, N. Y., a corporation of New York

Application June 26, 1941, Serial No. 399,954

13 Claims. (Cl. 20—5)



2. A wallboard having a flat finished surface with spaced grooves therein, each groove having a curved trough portion whose ends join and are tangent to curved shoulder portions whose extreme ends merge into and are tangent to the adjacent flat finished surface of the wallboard whereby the finished surface of the wallboard presents only straight and curved surfaces which merge into one another without the presence of sharp bends or edges.

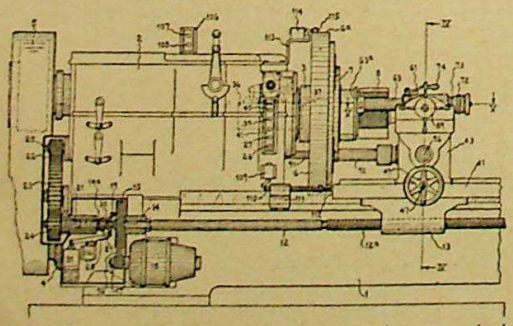
2,311,591

STEP THREADING MECHANISM

William F. Groene and Ross M. Bacon, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware

Application April 7, 1941, Serial No. 387,248

9 Claims. (Cl. 10—101)



1. In a step threading mechanism, a rotatable work spindle, power means for rotating said work spindle, means for connecting or disconnecting said power means from said work spindle and for braking said work spindle against rotation when said power means is disconnected therefrom, a tool feeding device having feeding movement relative to said work spindle, means for feeding said tool carrier in a predetermined relationship to the rate of rotation of said work spindle, a tool on said tool carrier, means for reciprocating said cutting tool in step threading motion in synchronism with the rotation of said work spindle, means rendered effective by the movement of said tool carrier in feeding movement for changing the rate of speed of said power means for rotating said work spindle, and means operable by the rotation of said work spindle for rendering said spindle braking device operative for stopping said work spindle in a predetermined indexed position relative to said cutting tool.

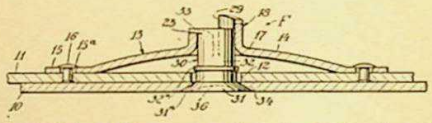
2,311,592

FASTENING DEVICE

Charles Hapanowicz, Newark, N. J., assignor of fifty per cent to Herbert J. Newmark, New York, N. Y.

Application March 21, 1941, Serial No. 384,472

4 Claims. (Cl. 85—36)



1. In combination, a pair of plates having registering openings, an arched spring mounted on one of said plates, a sleeve on said arched spring having a helical edge, a bolt passing through said openings and through said sleeve, and formed with a lug engaging said helical edge, said sleeve being formed with a longitudinal through slot, through which said lug may pass, said helical edge being formed with a plurality of notches adapted to engage said lug.

2,311,593

METHOD OF TREATING HYDROCARBONS

Vladimir A. Kalichevsky, Eugene T. Scafe, and Kenneth F. Hayden, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application December 6, 1940, Serial No. 368,932

3 Claims. (Cl. 196—32)

1. That method of removing sulphur constituents such as elemental sulphur, hydrogen sulphide and mercaptans from hydrocarbon oil fractions comprising contacting said oil with solid anhydrous alkali particles of colloidal sizes.

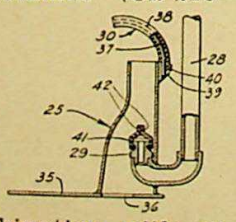
2,311,594

FILTER BED CLEANER

Charles Lose, Jr., Cranford, N. J.

Application October 4, 1940, Serial No. 359,656

10 Claims. (Cl. 210—128)



1. The combination with an upright hollow

tooth for a filter bed cleaner of the class described, said hollow tooth having a lower inlet end into which may be drawn granular material from the bottom of a filter bed, an upper outlet end from which the granular material may be discharged, means within said tooth and between said inlet end and outlet end for forcing the granular material through the tooth, of a deflector over the upper end of said tooth attached at one end to the side of the tooth and curving over said outlet to deflect the granular material laterally and downwardly, and a yieldable abrasion resisting member protecting the deflector.

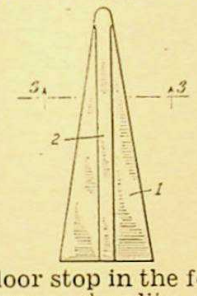
2,311,595

RUBBER DOORSTOP

Laurence M. Oakley, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a corporation of New Jersey

Application January 24, 1941, Serial No. 375,739

2 Claims. (Cl. 292—343)



1. A rubber door stop in the form of a pyramid, said stop having a plurality of relatively wide faces and a plurality of relatively narrow faces alternating therewith with each of the narrow faces lying opposite one of the wider faces.

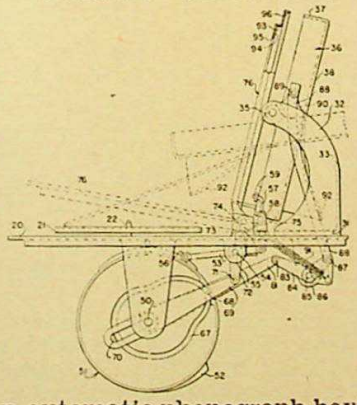
2,311,596

AUTOMATIC RECORD-CHANGING APPARATUS

Jackson H. Pressley, Marion, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware

Application October 17, 1940, Serial No. 361,472

9 Claims. (Cl. 274—10)



7. In an automatic phonograph having a turntable, the combination comprising a driving means for carrying out a record-changing cycle and a record-reversing cycle; a record-releasing member movable by said driving means for carrying out a record-releasing operation, said record-releasing member being adapted to be moved into an inoperative position; an oscillatory member movable by said driving means for guiding a record during said record-changing cycle and said record-reversing cycle; a record-reversing member adapted to be moved into an operative position during said record-reversing cycle for cooperaitng with said oscillatory member for reversing a record on said turntable; and resilient actuating means associated with said driving means for being actuated during said record-reversing cycle for moving said record-releasing member into said inoperative position and moving said record-reversing member into said operative position.

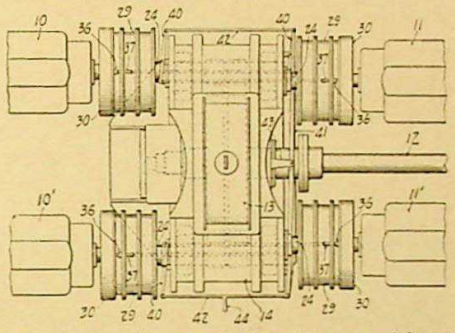
2,311,597

POWER TRANSMISSION

Walter P. Schmitter, Wauwatosa, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application February 26, 1941, Serial No. 380,594

12 Claims. (Cl. 74—389)



1. In a power transmission the combination of a gear, two parallel pinions meshing therewith, and a pair of clutches coaxially disposed with respect to each of said pinions, one clutch of each pair including a rotor connected to rotate with one of said pinions, and the other clutch of each pair including a rotor geared to the other of said pinions.

2,311,598

PROCESS OF MAKING BUTTER

Charles Schwartz, Pittsburgh, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 8, 1939, Serial No. 293,956

3 Claims. (Cl. 99—119)

3. The process of making butter, which comprises adding to cream in the absence of previously treated butter, about ⅛ ounce to two ounces per ten gallons of cream, of a molecularly dehydrated phosphate of the group consisting of glassy molecularly dehydrated alkali phosphates and alkali tripolyphosphates in which the molar ratio of alkali oxide to phosphorus pentoxide is between about 0.9:1 and 1.7:1 and churning until butter is produced.

2,311,599

MANUFACTURE OF CULTURED BUTTERMILK

Charles Schwartz, Pittsburgh, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application September 8, 1939, Serial No. 293,976

5 Claims. (Cl. 99—59)

1. The process of improving the flavor of cultured buttermilk and minimizing wheying off in the manufacture thereof, which comprises adding to skim milk containing bacteria culture, at the same time as or shortly after the bacteria culture is added, a small amount of a molecularly dehydrated phosphate of the group consisting of glassy molecularly dehydrated alkali phos-

phates and alkali tripolyphosphates in which the molar ratio of alkali oxide to phosphorus pentoxide is between about 0.9:1 and 1.7:1, maintaining the mixture at a suitable temperature until the desired acidity, flavor and aroma have been acquired and then cooling it.

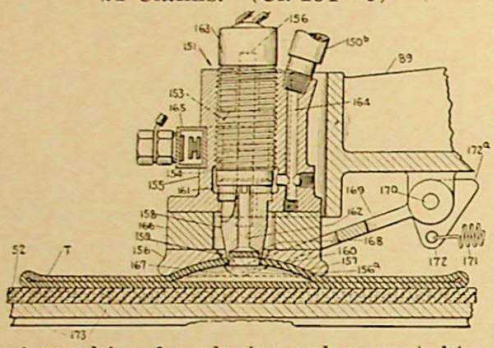
2,311,600

INNER TUBE MANUFACTURING DEVICE

Florian J. Shook, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application July 19, 1938, Serial No. 220,160

21 Claims. (Cl. 154—9)



16. A machine for placing valves on tubing for inner tubes and the like, comprising, in combination, a shaft, means for reciprocating said shaft, means for rotating said shaft, a tube-punching mechanism and a valve pick-up device carried by said shaft, means for supporting a length of tubing in association with said shaft, a conveyor for progressively feeding valves to said pick-up device, means in said pick-up device for releasably retaining a valve fed thereto by said feeding conveyor, means for reciprocating said shaft toward and from said supporting means to cause said mechanism to punch a hole in a wall of said tubing and to cause said device to pick up a valve from said feeding conveyor, and means for rotating said shaft and reciprocating the same toward and from said supporting means to cause said device to release a picked-up valve therefrom onto said tubing in cooperating relation with said punched hole.

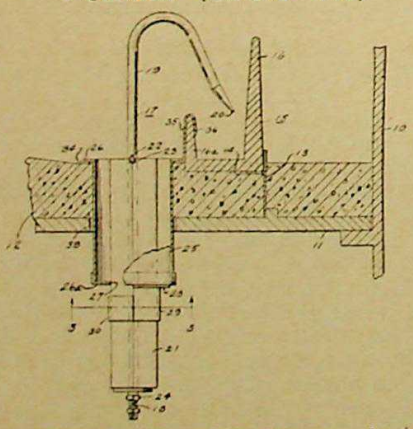
2,311,601

OIL BURNER ELECTRODE AND MOUNTING MEANS THEREFOR

William W. Slaght, Rocky River, Ohio, assignor to Cleveland Steel Products Corporation, Cleveland, Ohio, a corporation of Ohio

Application March 13, 1941, Serial No. 383,145

8 Claims. (Cl. 175—115)



1. A mounting assembly for an electrode for oil burning apparatus of the wall flame type comprising a tubular cup having an open top and a closed bottom, said cup being of sheet metal, said closed bottom having an aperture therethrough, an insulator tube of non-conductive material extending through said aperture and having a portion without said cup and a portion within said cup, said latter portion extending substantially to the open end of said cup in spaced relation with respect to the longitudinal wall thereof, bracket means rigidly carried by said closed bottom and having a depending portion provided with spaced clamping legs extending around said insulator and terminating in spaced ends and means urging said ends toward each other to clamp said legs around said insulator tube, and an electrode element extending through said insulator tube in fixed position.

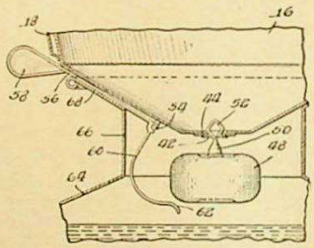
2,311,602

MILK COOLING AND DISPENSING DEVICE

Chester A. Thomas, Crystal Lake, Ill., assignor to Babson Bros. Co., Chicago, Ill., a corporation of Illinois

Application June 26, 1939, Serial No. 281,230

4 Claims. (Cl. 226—37)



1. For use in combination with a milk cooling device of the class described having a liquid receiving vessel, an outlet and a valve and float means for sealing said outlet; a lever construction for normally retaining said valve in orifice sealing position, said lever having a discontinuous pivot embracing journal peripherally relieved to permit free separation from the pivot for cleaning, an arm extending from said pivot portion and adapted in one pivotal position to reside adjacent the lower surface of the vessel, a second arm extending laterally from said first-named arm, said second arm terminating in a portion disposed longitudinally and oppositely with respect to said first-named arm and being adapted to engage beneath a portion of the float for holding the valve in sealing position in another pivotal position of the lever.

2,311,603

SPRING SUSPENSION, ESPECIALLY FOR VEHICLES

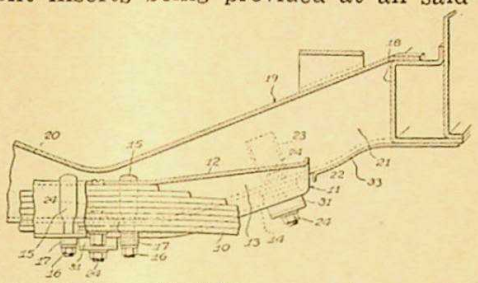
Theodore Ulrich, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 3, 1940, Serial No. 350,748

3 Claims. (Cl. 280—106.5)

1. In a spring suspension especially for vehicles, a leaf spring, a member attached to said spring, connecting points on said member at least one in the central region and at least one each in regions spaced from said central region, a frame member of inverted channel-shape having connecting points registering with the connection points on and being of greater length than said first member, said frame member being adapted to receive substantially said first member and the adjacent spring portion in its interior; the portions of said frame member ad-

jacent to and extending beyond said first member having the mouth of the channel closed by reinforcing plates; connecting means including resilient inserts being provided at all said con-



necting points, so that the spring is securely held, that the two members mutually interbrace each other and that vibrations are prevented to pass from the spring to said frame members.

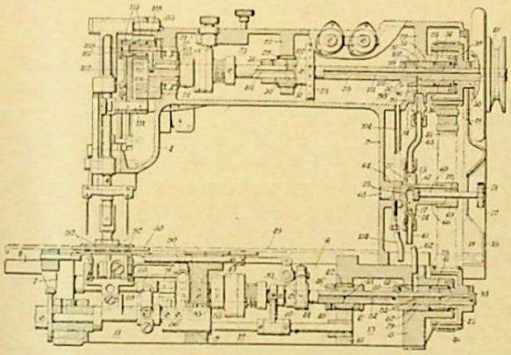
2,311,604

LUBRICATING SYSTEM FOR SEWING MACHINES

Frederick F. Zeier, Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Original application January 30, 1940, Serial No. 316,297. Divided and this application October 26, 1940, Serial No. 362,906

8 Claims. (Cl. 112—256)



1. In a sewing machine; the combination of a frame including a bed, a standard having an internal lug, and a bracket-arm; stitch-forming devices and work-feeding means; an actuating shaft journaled in bearings in said frame and having a longitudinal bore; mechanism connected to said shaft for actuating either the stitch-forming devices or the work-feeding means; means connecting the bore of said actuating shaft with the bearings in which said shaft is journaled and with the various bearing surfaces of the mechanism operated by said shaft; a lubricant reservoir; and means including a manually operated pump for delivering lubricant under pressure controllable directly by the operator from said reservoir to the bore in said actuating shaft for distribution to the bearings supporting said shaft and to the bearing surfaces of the mechanism operated by said shaft, said pump having a housing fitted with a supporting extension adapted to be secured to said standard lug.

2,311,605

MANUFACTURE OF HARD RUBBER ARTICLES

Hugh V. Allison, Fairfield, Conn., assignor to The Allison Company, Bridgeport, Conn., a corporation of Connecticut

No Drawing. Application July 8, 1940, Serial No. 344,411

8 Claims. (Cl. 260—774)

1. A hard rubber article comprising rubber, a high percentage of sulfur, zinc selenide, and the whole being intimately mixed and vulcanized and the zinc selenide serving to increase the strength of the article.

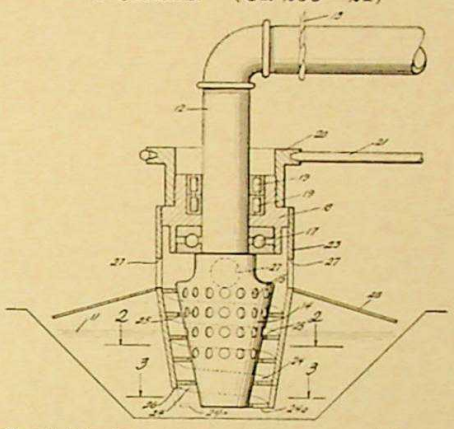
2,311,606

CENTRIFUGAL SEPARATOR

Clyde E. Bannister, Bartlesville, Okla.

Application February 27, 1940, Serial No. 321,098

8 Claims. (Cl. 233—21)



4. Centrifuging apparatus comprising a non-rotating suction pipe, a fluid-intake nozzle mounted thereon, means surrounding said nozzle for centrifuging a liquid passing thereinto, and means for supporting the assembly with the centrifuging means and the intake portion of the nozzle submerged in a surrounding body of liquid, said centrifuging means comprising a drum having an inlet opening and rotatable conveying means communicating with said inlet opening and constructed and arranged to receive liquid from said surrounding body of liquid and convey it along said drum to said suction nozzle.

2,311,607

PREPARATION OF STYRENE COPOLYMERS

Gerald H. Coleman and John W. Zemba, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application January 17, 1940, Serial No. 314,280

4 Claims. (Cl. 260—78)

1. The method of preparing a white, opaque, friable, and granular styrene co-polymer which is substantially insoluble and non-swelling in benzene, which comprises polymerizing a mixture of styrene and a minor proportion of diallyl maleate at a temperature below about 110° C. in the presence of from about 0.01 to about 1.0 per cent by weight of 2.4-diphenylazo-phenol.

4. In a method wherein a white, opaque, friable, and granular polymerization product, which is substantially insoluble and non-swelling in benzene, is prepared by polymerizing a mixture comprising styrene and a minor proportion of an unsaturated organic ester which contains at least two olefinic linkages at a temperature below 110° C.; the step which consists in carrying out the polymerization in the presence of an inhibitor for the polymerization of styrene in amount sufficient to inhibit the formation of the normal glass-like polymer, said amount being less than about 1.0 per cent and said inhibitor being an organic nitrogen compound selected from the class consisting of phenyl-alpha-naphthylamine, 2-(4-phenylazo-phenoxy) ethanol, arylazo-arylamines and arylazo-phenols.

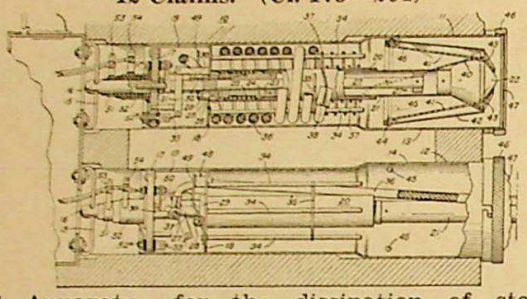
2,311,608

STATIC DISCHARGE DEVICE

Herbert M. Hucke, Arlington, Va., assignor to United Air Lines Transport Corporation, Chicago, Ill., a corporation of Delaware

Application May 10, 1940, Serial No. 334,419

12 Claims. (Cl. 175—264)



1. Apparatus for the dissipation of static charges, comprising a receptacle mounted upon a vehicle, a cartridge removably fitted within said receptacle and containing an ejector mechanism, quick-detachable means for securing said cartridge in said receptacle and electrically connecting said cartridge to said vehicle, an electric conductor having one end electrically connected to said vehicle through said cartridge and its other end positioned so as to be carried by said ejector mechanism, trigger means within said cartridge for normally retaining said ejector mechanism in retracted condition, and means operable within said vehicle for effecting operation of said trigger means in said cartridge to release said ejector mechanism and eject said electrical conductor from said cartridge.

2,311,609

HOT-MELT COATING COMPOSITION

Toivo A. Kauppi and Myron Kin, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application April 23, 1940, Serial No. 331,212

6 Claims. (Cl. 260—14)

1. A hot-melt non-blocking coating composition, consisting of 100 parts of the following ingredients, each in a proportion to constitute a percentage of said 100 parts within the range recited below:

	Per cent by weight
Lower alkyl ether of cellulose (alkyl contains 1 to 4 carbon atoms)	25–20.
A wax selected from the group consisting of the true waxes, wax-like esters, and wax-like monohydric alcohols	25–80.
Compatible, non-thermo setting resin	Not to exceed 40.
A plasticizer which is a solvent for the cellulose ether	Not to exceed 20.
Mineral wax	5–30.

and from 1 to 20 per cent of hydrogenated rosin, based on the weight of the other ingredients, which composition is characterized by its low viscosity and good retention of color on prolonged heating at 130° C.

2,311,610

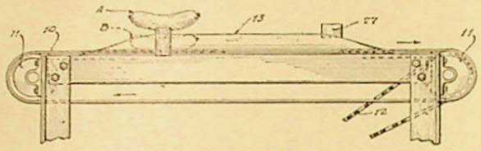
BANDING MACHINE

Lowell R. Newten, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application May 15, 1942, Serial No. 443,061

12 Claims. (Cl. 216—39)

1. A labeling machine comprising a driven deformable conveying means, a shaping means positioned in the path of movement of the conveying means for deforming it, means to drive the conveying means to pull it through the shaping means whereby when an article with a label partially wrapped therearound is deposited on



the conveying means it will be drawn through the shaping means on the conveying means, said shaping means being formed to cause the deformable conveying means to engage the label and wrap it around the article with its ends overlapped in which position the label may be affixed to the article.

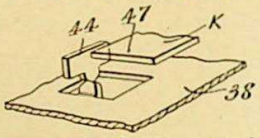
2,311,611

COMBINED ADJUSTABLE RESISTANCE DEVICE AND SWITCH UNIT

Herman F. Nied, Camden, N. J.

Application March 11, 1940, Serial No. 323,488

1 Claim. (Cl. 201—55)



In a volume control, the combination of a resistance element, a contact member slidably associated with said resistance element, a second member connected with and movable in unison with said contact member and a stop member of bendable material associated with said second member for limiting the movement of said contact member relative to said resistance element, said stop member being substantially T-shaped and the leg of said T being adapted to be twisted through at least 90 degrees whereby, in one position of said stop member, said second member is adapted to engage one end of the cross arm of said T, and when said leg is twisted through 90 degrees said second member is adapted to engage one side of the cross arm of said T.

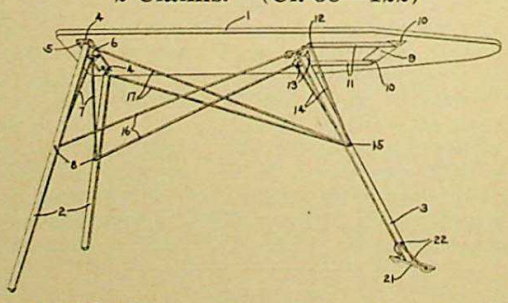
2,311,612

IRONING BOARD

Walter H. Pleiss, Ludington, Mich.

Application September 22, 1941, Serial No. 411,789

2 Claims. (Cl. 38—122)



1. A foldable supporting structure for ironing boards comprising, a transverse bracket adjacent one end of the board, a leg pivotally mounted at one end thereof on each end of said bracket, a pair of rods pivotally connected at one end to a common pivot pin on said bracket and diverging therefrom and pivotally connected one to each leg substantially midway between the ends thereof, a second bracket on said board spaced in-

wardly from the other end thereof having bars pivotally mounted thereon connected together at their outer ends with a transverse rod, a third leg mounted at one end on said last named rod, a second pair of elongated rods connected at one of their ends to said first named bracket and at their other ends to the third leg between its ends, a third pair of rods connected at one end to said transverse rod and at their other ends to said third leg at the same point of connection thereto as the second pair of rods, a fourth pair of rods extending between said transverse rod and the first two legs, and a T-shaped resilient clasp on said board to clamp on the third leg to hold the support in folded position and to clamp on said transverse rod to hold the support in open position.

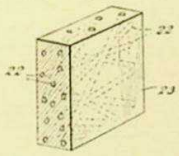
2,311,613

TRANSPARENT COMPOSITE MATERIAL

Games Slayter, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application April 11, 1939, Serial No. 267,245

8 Claims. (Cl. 117—126)



8. A product of manufacture comprising a base of organic, non-porous, transparent plastic material, and inorganic transparent fibers embedded in said base, the indices of refraction of said fibers and said base being relatively such at room temperatures that embedded fibers are invisible.

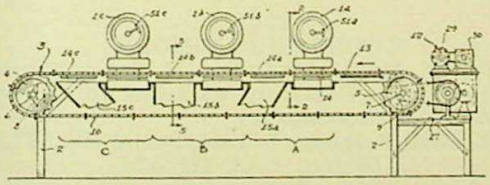
2,311,614

WEIGHING AND GRADING APPARATUS

Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application July 24, 1940, Serial No. 347,249

10 Claims. (Cl. 209—121)



1. A grading device comprising a weighing means having a weighing platform operatively connected with a movable weight indicator, a movable discharge platform arranged to one side of the weighing platform, intermittently operable means adapted to move an article to be graded successively onto the weighing platform and onto the movable discharge platform and photoelectric means associated with the movable weight indicator and adapted upon movement of the movable weight indicator to a predetermined limit upon movement of the article upon the weighing platform to movably operate the movable discharge platform to discharge the article upon timed movement of the article upon the movable discharge platform, the intermittently operable means comprising conveyor means adapted to travel above and over the plane of the weighing platform and the movable discharge platform and having flight members contactably engageable with the article to be graded and a conveyor drive means whereby each cycle of movement of the conveyor means will comprise a relatively quick long movement coming then to a complete stop and followed immediately by a relatively short slow movement before the weighing is done said short slow movement being in the same direction as said long quick movement.

2,311,615

METHOD OF MAKING POLYMERS DERIVED FROM STYRENE

John W. Zemba and Gerald H. Coleman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application March 27, 1940, Serial No. 326,174

8 Claims. (Cl. 260—78)

1. In the process of polymerizing at a temperature below about 110° C. a mixture of styrene and a neutral unsaturated ester containing at least two olefinic linkages, the step which consists in starting the polymerization in the presence of a small proportion of a friable, opaque polymeric material which is substantially insoluble and non-swelling in benzene and which has been made by the polymerization of a mixture of stryene and a compound containing at least two olefinic linkages at a temperature below about 110° C.; whereby a further quantity of friable, opaque, substantially colorless polymeric material which is substantially insoluble and non-swelling in benzene is formed.

5. In the process of polymerizing styrene at a temperature below about 110° C., the step which consists in starting the polymerization in the presence of a small proportion of a friable, opaque polymeric material which is substantially insoluble and non-swelling in benzene and which has been made by the polymerization of a mixture of styrene and diallyl maleate at a temperature below about 110° C.; whereby a further quantity of friable, opaque, substantially colorless polymeric material which is substantially insoluble and non-swelling in benzene is formed.

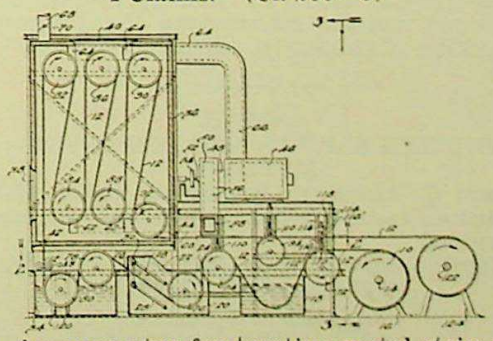
2,311,616

APPARATUS FOR TREATING METAL STRIPS

Robert H. Gordon, Detroit, Mich., and Roy P. Tooke, Butler, Pa., assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application February 15, 1940, Serial No. 319,114

4 Claims. (Cl. 266—3)



1. An apparatus for treating metal strip comprising a series of tanks containing treating fluids, means for conducting a strip in sequence into said tanks, a baking oven, means for conducting said strip through said baking oven and pulling means for acting upon the strip upon its emergence from said baking oven, said oven being arranged above the last tank of said series and said conducting means being so disposed therein that the strip passes from the last tank

of said series into said oven in a vertical path, and traverses substantially the height of said oven before contacting said conducting means and is then generally led in a reverse direction to its path through said treating tanks and said pulling means being disposed in the vicinity of the entrance of the strip into the first tank of said series.

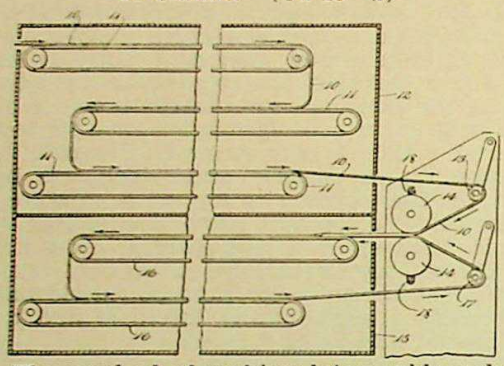
2,311,617

METHOD AND APPARATUS FOR MAKING THICK LATEX RUBBER SHEETING

Merrill E. Hansen, Silver Lake, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware

Application April 22, 1941, Serial No. 389,727

13 Claims. (Cl. 18—2)



1. The method of making latex rubber sheeting of relatively great thickness which comprises progressively producing a continuous sheet of water-containing latex rubber coagulum of such thickness as to yield a dried rubber sheet having only a fraction of the desired thickness, immediately causing the said sheet to travel along a determinate path, heat-drying the sheet in the course of such travel until substantially all the water has been driven therefrom, and then plying up the sheet to the full desired thickness by progressively doubling and pressing the dried sheet upon itself as it travels in a closed loop of substantial length, the plying-up operation being effected while the single-ply sheet is still warm from the heat-drying and the plied-up sheet being subjected to additional heating at a temperature of from 120° to 180° F. during the plying operation, thereafter cutting the loop, severing the plied-up sheet from the single-ply sheet, and repeating the plying-up operation on the single-ply sheet, all said operations being performed without interrupting the progressive production of the initial continuous sheet.

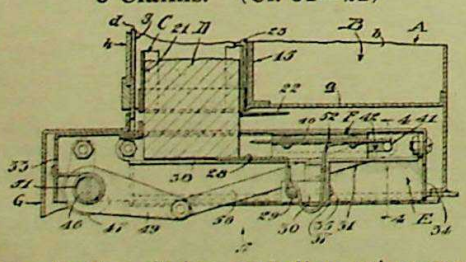
2,311,618

BUTTER SLICING AND DISPENSING MACHINE

William F. Coleman, Richmond, Calif.; Hilma Coleman executrix of said William F. Coleman, deceased

Application September 30, 1939, Serial No. 297,309

3 Claims. (Cl. 31—21)



1. In a butter slicing and dispensing machine, a plate tiltable on a horizontal axis at one end thereof, means for delivering a block of butter downwardly to said plate, a horizontally reciprocal carriage, a cutter on said carriage arranged to sever a block of butter supported on said plate on advance of said carriage, manually operable means for advancing said carriage, and a finger connected to the other end of said tiltable plate bearing on the under side of said carriage and arranged to be cleared on advance of said carriage; said plate being adapted to swing downwardly when said carriage clears said finger.

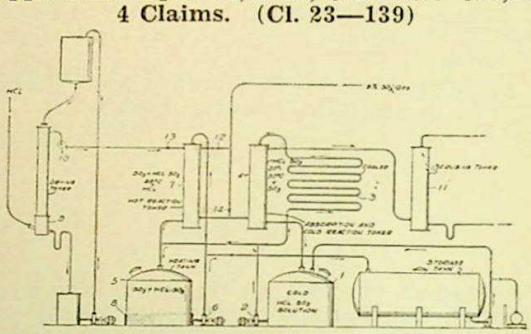
2,311,619

PREPARATION OF CHLORSULPHONIC ACID

Napoleon Arthur Laury, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application April 12, 1940, Serial No. 329,243

4 Claims. (Cl. 23—139)



1. The process of manufacturing chlorosulphonic acid which comprises rapidly reacting sulphur trioxide in chlorsulphonic acid solution with hydrogen chloride gas at such a temperature that some sulphur trioxide, hydrogen chloride and chlorsulphonic acid vapors are evolved and a residue of substantially pure chlorsulphonic acid is obtained and passing the evolved vapors through chlorsulphonic acid containing an amount of chemically uncombined SO_3 at a temperature of about 20°–30° C.

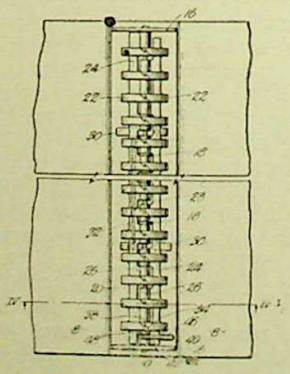
2,311,620

LOOSE-LEAF BINDER

Edward B. Murphy, Linden, N. J., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts

Application February 7, 1941, Serial No. 377,826

3 Claims. (Cl. 129—24)



1. A loose-leaf binder of the character described, comprising a back member; upstanding flanges on the back member at the ends thereof; a hinge rod carried by the flanges in spaced relation with the back member; a pair of sections each having hinge barrels embracing the rod for rotation about the axis thereof, and sheet holding members provided with interlocking struc-

ture at their free ends; and a spring interconnecting the sections to releasably hold the members in interlocked condition, one of the sections being movable longitudinally along the rod in one direction by the spring, said interlocking structure having cam faces disposed to shift the movable section along the rod in the opposite direction against the force of said spring as the pair of sections are rotated about the axis of said rod.

2,311,621

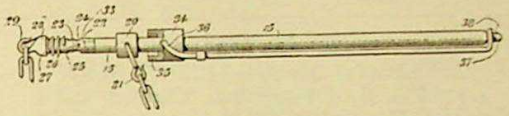
TIRE CHAIN AND ITS APPLICATION

William R. Royer, Wilkes-Barre, Pa.

Application March 15, 1941, Serial No. 383,471

17 Claims. (Cl. 152—213)

2. A tire chain connector comprising in combination, two mating telescopic connectible members slidable longitudinally along each other, elements on said members for connecting them to opposite ends of a side chain, a latch mounted in

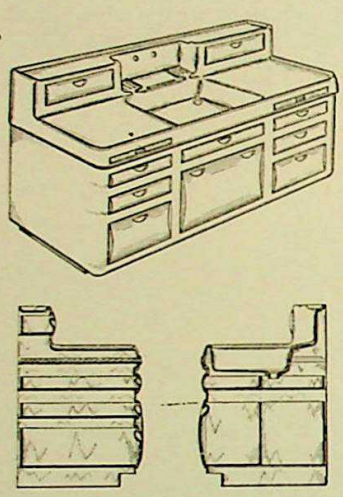


one member permitting the other member to slide over it, and a rigid detachable extension for one of said members which also slidably fits the other member to form an elongated tool to assist in making the connection.

DESIGNS

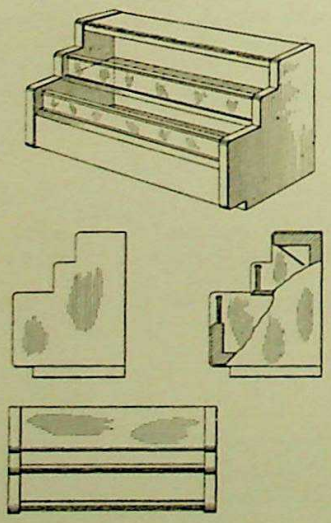
FEBRUARY 16, 1943

135,024
DESIGN FOR A CABINET SINK
David E. Anderson, Los Angeles, Calif.
Application December 20, 1941, Serial No. 104,769
Term of patent 14 years



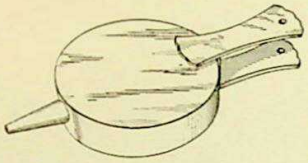
The ornamental design for a cabinet sink, as shown.

135,025
DESIGN FOR A REFRIGERATED DISPLAY CABINET
Cyrus F. Hoffman, Trenton, N. J., assignor to V. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application June 11, 1942, Serial No. 107,176
Term of patent 14 years



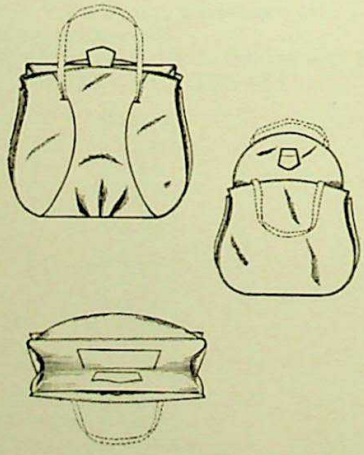
The ornamental design for a refrigerated display cabinet, as shown and described.

135,026
DESIGN FOR A POWDER BELLOWS
Mortimer H. Hirschfield, Great Neck, N. Y., assignors to Tone Laboratories, Inc., New York, N. Y., a corporation of New York
Application December 5, 1942, Serial No. 108,952
Term of patent 7 years



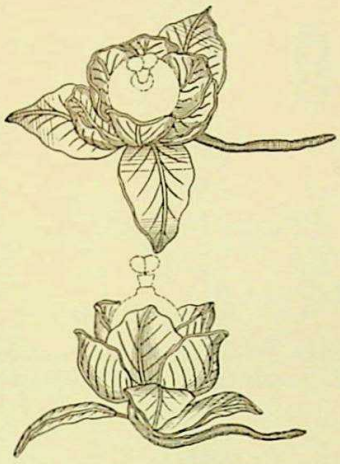
The ornamental design for a powder bellows, as shown.

135,027
DESIGN FOR A HANDBAG
William Tashman, Chicago, Ill.
Application December 21, 1942, Serial No. 109,091
Term of patent 3½ years



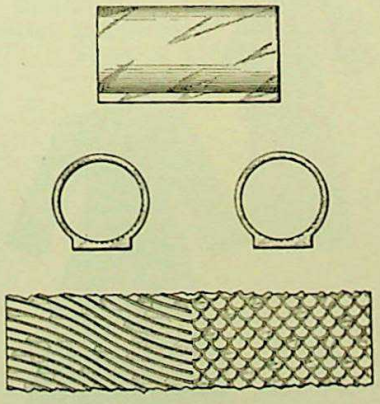
The ornamental design for a handbag, substantially as shown and described.

135,028
DESIGN FOR A COMBINED BOTTLE AND DISPLAY HOLDER
Alfred A. Flaster, New York, N. Y.
Application December 28, 1942, Serial No. 109,151
Term of patent 7 years



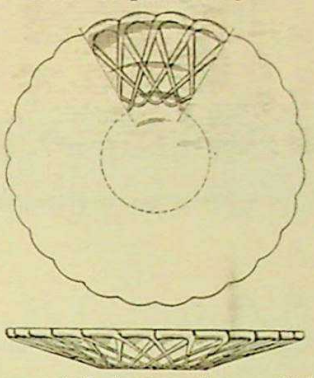
The ornamental design for a combined bottle and display holder, substantially as shown and described.

135,029
DESIGN FOR A SHARPENER FOR RAZOR BLADES
Walter Griffies, Chicago, Ill.
Application June 17, 1942, Serial No. 107,222
Term of patent 7 years



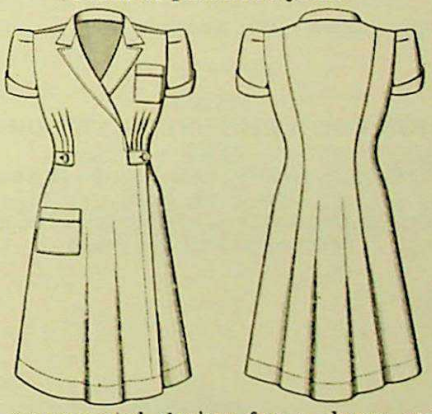
The ornamental design for a sharpener for razor blades, as shown.

135,030
DESIGN FOR A DISH OR SIMILAR ARTICLE
Arthur L. Harshman, Dunkirk, Ind., assignor to Indiana Glass Company, Dunkirk, Ind., a corporation of Indiana
Application December 13, 1941, Serial No. 104,619
Term of patent 7 years



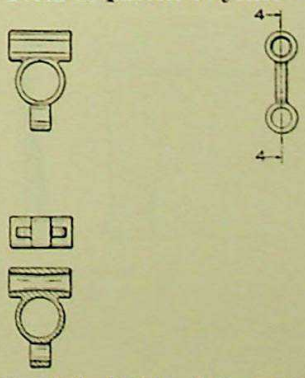
The ornamental design for a dish or similar article, substantially as shown and described.

135,031
DESIGN FOR A DRESS
Henry J. Pearl, Los Angeles, Calif., assignor of one-half to Harvey L. Barker, Los Angeles, Calif.
Application March 3, 1942, Serial No. 106,070
Term of patent 14 years



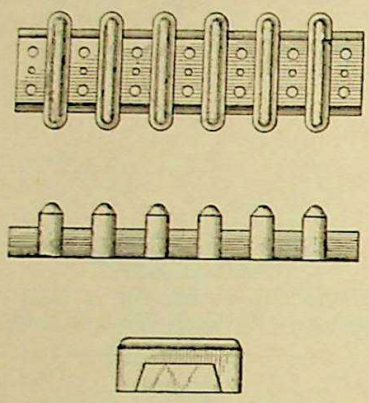
The ornamental design for a dress, substantially as shown.

135,032
DESIGN FOR A RING CIGARETTE HOLDER
Gretyl E. Carson, Chicago, Ill.
Application October 29, 1941, Serial No. 103,937
Term of patent 14 years



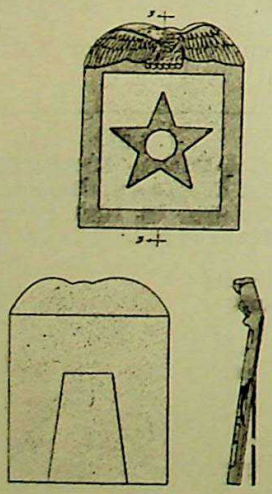
The ornamental design for a ring cigarette holder, as shown.

135,033
DESIGN FOR A TERMINAL BLOCK FOR ELECTRICAL CONNECTIONS
Howard B. Jones, Evanston, Ill.
Application January 31, 1942, Serial No. 105,534
Term of patent 14 years



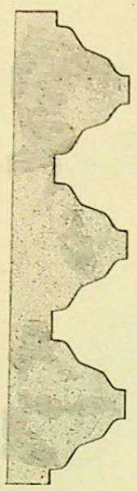
The ornamental design for a terminal block for electrical connections, as shown.

135,034
DESIGN FOR A PICTURE FRAME OR THE LIKE
Sydney S. Corwin and Jerome Braun, New York, N. Y.
Application December 1, 1942, Serial No. 108,915
Term of patent 3½ years



The ornamental design for a picture frame or the like, as shown.

135,035
DESIGN FOR A ROOFING SHINGLE
Don B. Humphrey, Great Neck, N. Y., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application June 12, 1942, Serial No. 107,180
Term of patent 14 years

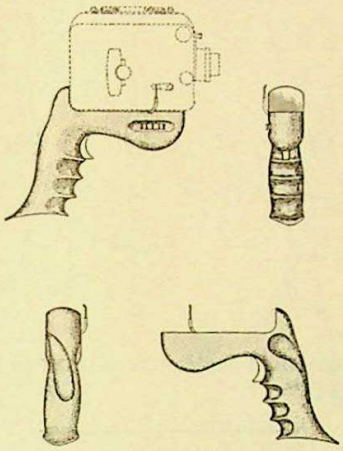


The ornamental design for a roofing shingle, substantially as shown.

135,036
DESIGN FOR A HOUSE COAT
William M. Kittles, Chicago, Ill., assignor to Walter M. Gotsch Company, Chicago, Ill., a corporation of Illinois
Application December 28, 1942, Serial No. 109,149
Term of patent 3½ years

The ornamental design for a house coat, substantially as shown and described.

135,037
DESIGN FOR A COMBINED CAMERA AND GRIP HOLDER THEREFOR
Ralph H. Munson, St. Paul, Minn.
Application December 8, 1941, Serial No. 104,529
Term of patent 14 years

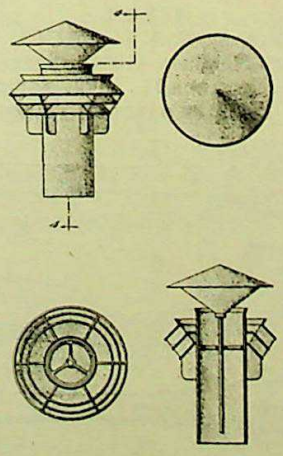


The ornamental design for a combined camera and grip holder therefor, as shown and described.

135,038
DESIGN FOR A RING
Belmiro Pereira, New York, N. Y.
Application December 10, 1942, Serial No. 109,000
Term of patent 7 years

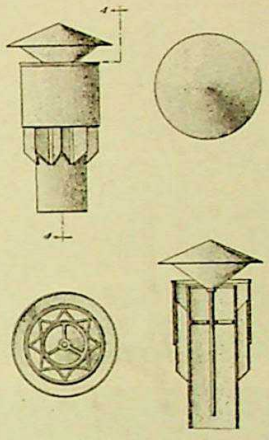
The ornamental design for a ring, substantially as shown and described.

135,039
DESIGN FOR A VENTILATOR OR THE LIKE
Robert W. Rowland, Newark, N. J.
Application December 23, 1942, Serial No. 109,119
Term of patent 14 years



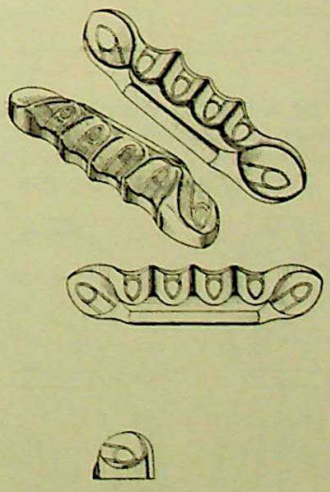
The ornamental design for a ventilator or the like, as shown.

135,040
DESIGN FOR A VENTILATOR OR THE LIKE
Robert W. Rowland, Newark, N. J.
Application December 23, 1942, Serial No. 109,120
Term of patent 14 years



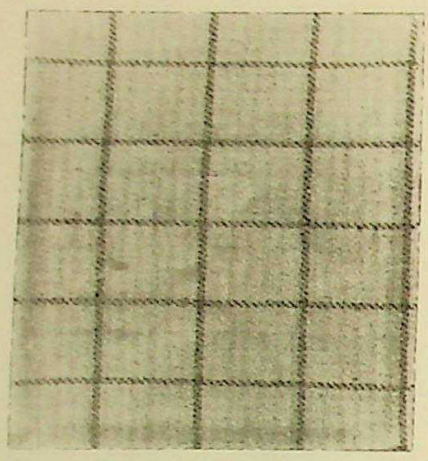
The ornamental design for a ventilator or the like, as shown.

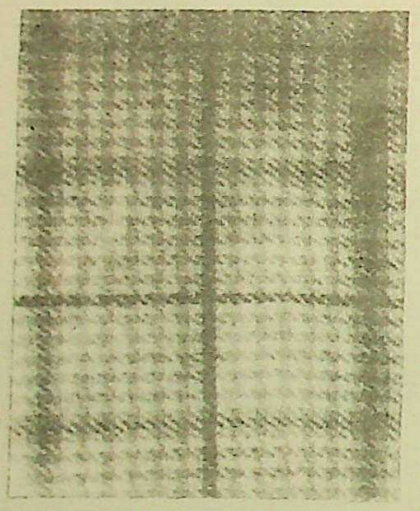
135,041
DESIGN FOR A FINGER REST
Otto Robert White, New York, N. Y.
Application May 12, 1942, Serial No. 106,870
Term of patent 14 years



The ornamental design for a finger rest, substantially as shown.

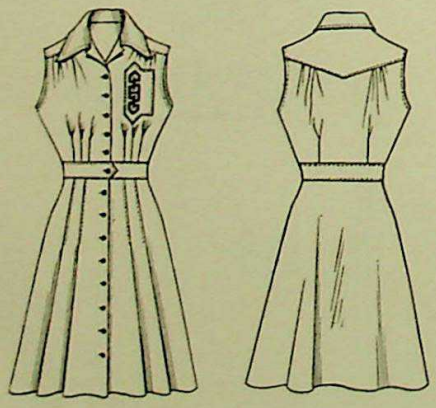
135,042
DESIGN FOR A TEXTILE FABRIC
John H. Abt, New York, N. Y., assignor to Deering Milliken & Co., Inc., New York, N. Y.
Application November 10, 1942, Serial No. 108,745
Term of patent 3½ years





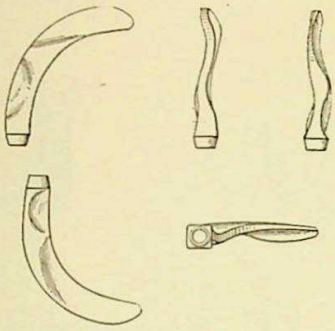
The ornamental design for a textile fabric, substantially as shown.

135,043
DESIGN FOR A DRESS OR SIMILAR ARTICLE
Mortimer M. Breskin, New York, N. Y.
Application January 25, 1943, Serial No. 109,336
Term of patent 3½ years



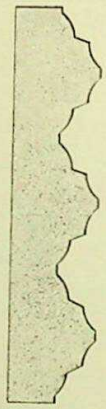
The ornamental design for a dress or similar article, substantially as shown.

135,044
DESIGN FOR A HANDLE FOR A SAFETY RAZOR
John B. Buller, St. Joseph, Mo.
Application December 14, 1942, Serial No. 109,037
Term of patent 14 years



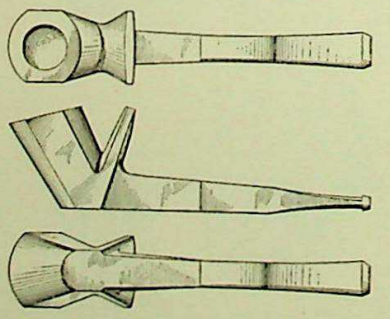
The ornamental design for a handle for a safety razor, as shown.

135,045
DESIGN FOR A ROOFING SHINGLE
Oscar A. Bigler, Chicago, Ill., and Millard S. Larrison, Frankford, Pa., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application May 22, 1942, Serial No. 106,977
Term of patent 14 years



The ornamental design for a roofing shingle, substantially as shown.

135,046
DESIGN FOR A TOBACCO PIPE
Robert F. Blair, Guttenberg, N. J.
Application December 17, 1942, Serial No. 109,056
Term of patent 7 years



The ornamental design for a tobacco pipe, as shown.

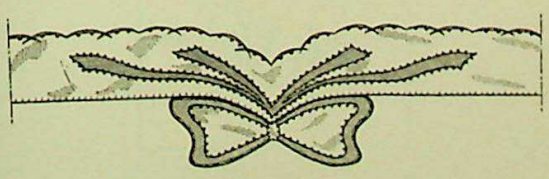
135,047
DESIGN FOR A DRESS
Abe Gershuny, New York, N. Y.
Application January 26, 1943, Serial No. 109,364
Term of patent 3½ years

The ornamental design for a dress, substantially as shown.

135,048
DESIGN FOR A DRESS
Abe Gershuny, New York, N. Y.
Application January 26, 1943, Serial No. 109,365
Term of patent 3½ years

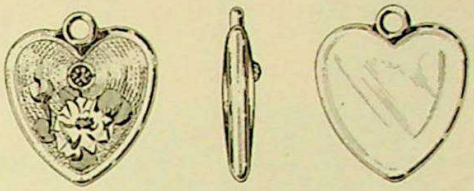
The ornamental design for a dress, substantially as shown.

135,049
DESIGN FOR AN EMBROIDERED TRIMMING
John Goldfrank, New York, N. Y.
Application January 6, 1943, Serial No. 109,213
Term of patent 3½ years



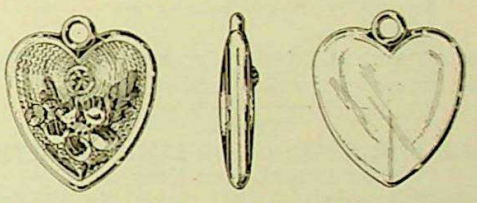
The ornamental design for an embroidered trimming, substantially as shown.

135,050
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application October 12, 1942, Serial No. 108,499
Term of patent 7 years



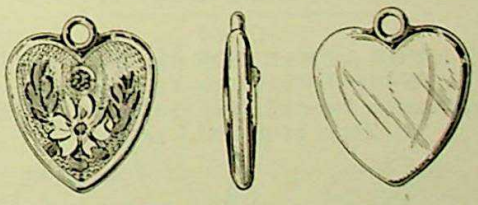
The ornamental design for a charm or similar article, as shown and described.

135,051
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application October 12, 1942, Serial No. 108,500
Term of patent 7 years



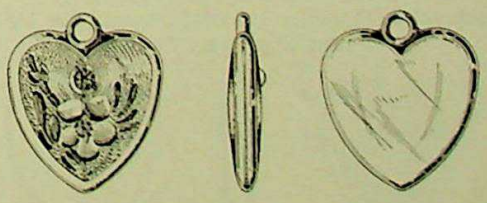
The ornamental design for a charm or similar article, as shown and described.

135,052
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application June 13, 1941, Serial No. 101,449
Term of patent 7 years



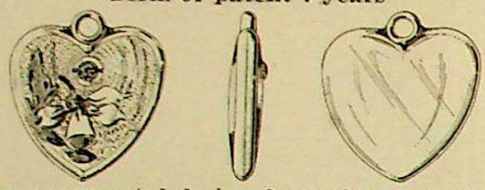
The ornamental design for a charm or similar article, as shown and described.

135,053
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application June 13, 1941, Serial No. 101,450
Term of patent 7 years



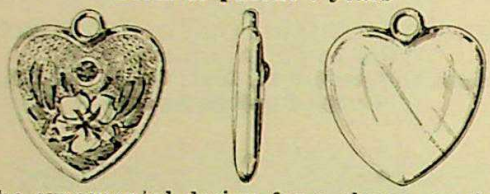
The ornamental design for a charm or similar article, as shown and described.

135,054
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application June 4, 1941, Serial No. 101,295
Term of patent 7 years



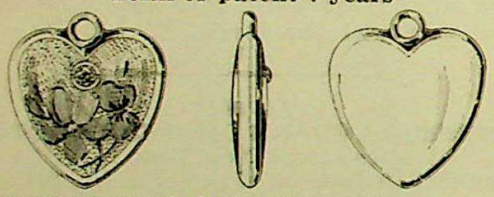
The ornamental design for a charm or similar article, as shown and described.

135,055
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application June 4, 1941, Serial No. 101,296
Term of patent 7 years



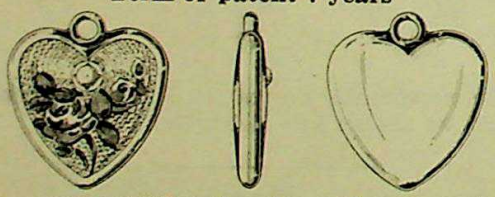
The ornamental design for a charm or similar article, as shown and described.

135,056
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application June 4, 1941, Serial No. 101,297
Term of patent 7 years



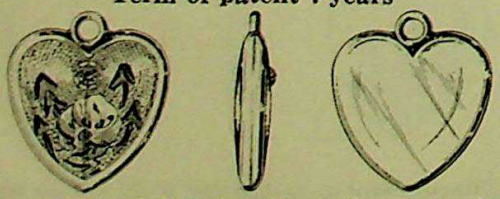
The ornamental design for a charm or similar article, as shown and described.

135,057
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application June 13, 1941, Serial No. 101,451
Term of patent 7 years



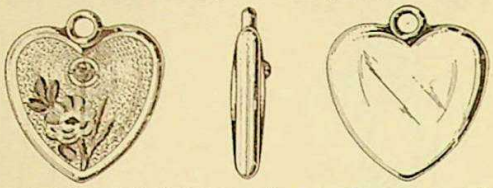
The ornamental design for a charm or similar article, as shown and described.

135,058
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application October 12, 1942, Serial No. 108,501
Term of patent 7 years



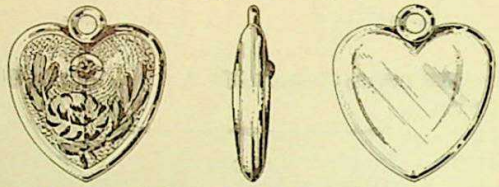
The ornamental design for a charm or similar article, as shown and described.

135,059
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application October 12, 1942, Serial No. 108,502
Term of patent 7 years



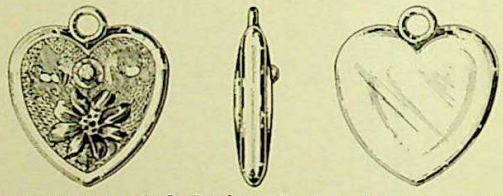
The ornamental design for a charm or similar article, as shown and described.

135,060
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application October 12, 1942, Serial No. 108,503
Term of patent 7 years



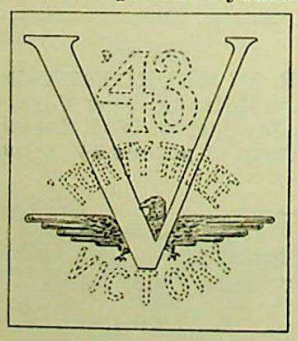
The ornamental design for a charm or similar article, as shown and described.

135,061
DESIGN FOR A CHARM OR SIMILAR ARTICLE
Walter Lampl, New York, N. Y.
Application October 12, 1942, Serial No. 108,504
Term of patent 7 years



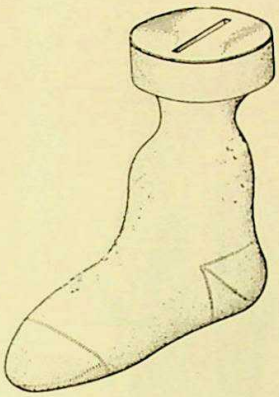
The ornamental design for a charm or similar article, as shown and described.

135,062
DESIGN FOR AN EMBLEMATIC POSTER
Percy Merton, Hillsdale, N. J.
Application September 26, 1942, Serial No. 108,341
Term of patent 7 years



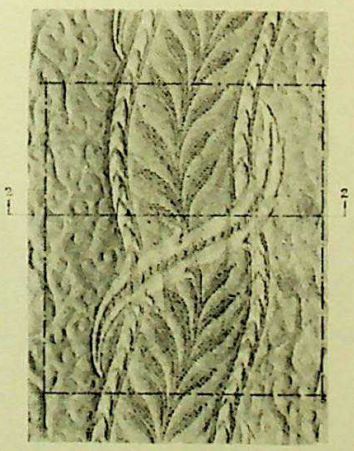
The ornamental design for an emblematic poster, substantially as shown.

135,063
DESIGN FOR A SAVINGS BANK
John J. Misley, Yonkers, N. Y., assignor to Baron & Arnof, Inc., New York, N. Y., a corporation of New York
Application April 24, 1942, Serial No. 106,684
Term of patent 3½ years



The ornamental design for a savings bank, as shown.

135,064
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE
Henry St. Clair Morford, Hempstead, N. Y., assignor to J. H. Thorp & Co., Inc., New York, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,927
Term of patent 3½ years



The ornamental design for a textile fabric or similar article of manufacture, as shown.

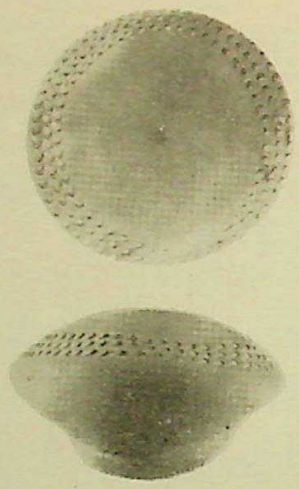
135,065
DESIGN FOR A TABLE SCARF OR SIMILAR ARTICLE
Ruth C. Oppenheim, New York, N. Y.
Application January 20, 1943, Serial No. 109,295
Term of patent 3½ years

The ornamental design for a table scarf or similar article, substantially as shown.

135,066
DESIGN FOR A DRESS
Mollie Parnis, New York, N. Y.
Application January 23, 1943, Serial No. 109,332
Term of patent 3½ years

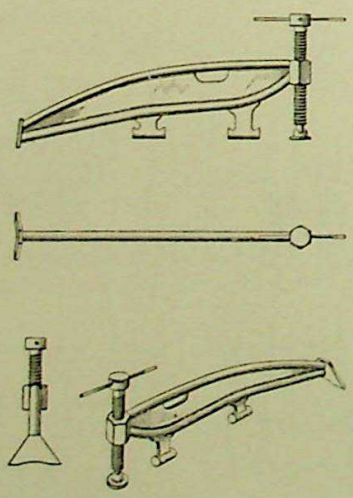
The ornamental design for a dress, substantially as shown.

135,067
DESIGN FOR A HAT
Aaron Rothchild, Flushing, N. Y.
Application October 19, 1942, Serial No. 108,554
Term of patent 3½ years



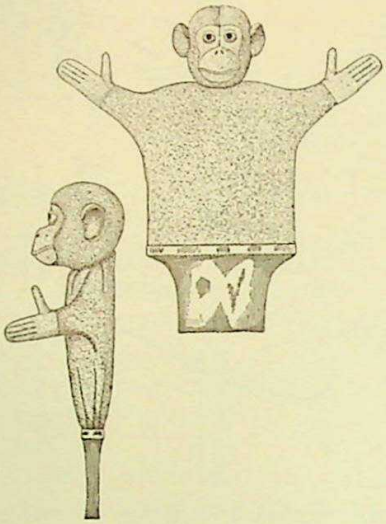
The ornamental design for a hat, substantially as shown.

135,068
DESIGN FOR A JACK CLAMP
Richard F. Smith, Savannah, Ga., assignor to Welding Tools & Engineering Corp, Atlanta, Ga.
Application November 16, 1942, Serial No. 108,788
Term of patent 14 years



The ornamental design for a jack clamp, as shown.

135,069
DESIGN FOR A TOY FIGURE
Lois Bishop Somersett, Oakland, Calif.
Application June 24, 1942, Serial No. 107,336
Term of patent 14 years



The ornamental design for a toy figure, substantially as shown.

135,070
DESIGN FOR A DRESS
Harold H. Stahl, New York, N. Y.
Application January 26, 1943, Serial No. 109,367
Term of patent 3½ years

The ornamental design for a dress, substantially as shown.

135,071
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,929
Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,072
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,930
Term of patent 3½ years

The ornamental design for a belting or the like for personal wear, as shown.

135,073
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,931
Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,074
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,932
Term of patent 3½ years

The ornamental design for a belting or the like for personal wear, as shown.

135,075
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,933
Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,076
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,934
Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,077
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,935
Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,078
DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR
Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York
Application December 2, 1942, Serial No. 108,936
Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,079

DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR

Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York

Application December 2, 1942, Serial No. 108,937

Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

135,080

DESIGN FOR BELTING OR THE LIKE FOR PERSONAL WEAR

Carl E. Ricketts, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a corporation of New York

Application December 2, 1942, Serial No. 108,938

Term of patent 3½ years

The ornamental design for belting or the like for personal wear, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Tobacco Company, The, New York, N. Y. Tobacco, cigarettes, cigars, etc. Serial No. 457,025; Feb. 16. Class 17.

Amoskeag-Lawrence Mills, Inc., Manchester, N. H. Piece goods. Serial No. 455,881; Feb. 16. Class 42.

Amoskeag-Lawrence Mills, Inc., Manchester, N. H. Yarns. Serial No. 455,882; Feb. 16. Class 43.

Anderson, Wm., Textile Mfg. Co. Ltd., New York, N. Y. Printed cotton piece goods, rayon, silk and all textile fabric piece goods. Serial No. 456,736; Feb. 16. Class 42.

Art-Mor Togs Inc., New York, N. Y. Ladies' and misses' coveralls, slack suits, caps, etc. Serial No. 456,763; Feb. 16. Class 39.

Bardin & Jensen, Los Angeles, Calif. Sugar wafers, fig bars, graham toffees, etc. Serial No. 455,410; Feb. 16. Class 46.

Baskies, Max, doing business as Maxim Chemical Works Ltd., Boston, Mass. Anti-pain tablet. Serial No. 443,665; Feb. 16. Class 6.

Beacon Record Co. (See Davis, Joseph M.)

Bell & Zoller Coal Company, Chicago, Ill. Coal. Serial No. 453,486; Feb. 16. Class 1.

Bergeron, Esther, Oakland, Calif. Novelties and curios. Serial No. 449,986; Feb. 16. Class 50.

Blue Mountain Textile Corporation, New York, N. Y. Mufflers. Serial No. 457,269; Feb. 16. Class 39.

Borden Company, The, New York, N. Y. Fresh milk. Serial No. 457,216; Feb. 16. Class 46.

Bradley, Milton, Company, Springfield, Mass. Crayons. Serial No. 457,111; Feb. 16. Class 37.

Bradley, Milton, Company, Springfield, Mass. Board game played with movable pieces. Serial No. 457,672; Feb. 16. Class 22.

Buchanan, James, Middletown, Ohio. Cartoons. Serial No. 450,302; Feb. 16. Class 38.

Bundzik, Mary, Johnstown, Pa. Cleaning and polishing preparation for furniture, radios, automobiles, etc. Serial No. 455,131; Feb. 16. Class 16.

California Growers Wineries, Cutler, Calif. Wines. Serial No. 457,271; Feb. 16. Class 47.

Cal-Royal Co., Inc., New York, N. Y. Fresh avacado pears. Serial No. 457,491; Feb. 16. Class 46.

Campbell, A. S., Co., Inc., Boston and East Boston, Mass. Dolly trucks for receiving the wheel of a vehicle to support the latter. Serial No. 449,825; Feb. 16. Class 23

Chicago Flexible Shaft Company, Chicago, Ill. Publication devoted to the industrial furnace trade and containing notes, comments, and news relating to the processing of metals. Serial No. 452,601; Feb. 16. Class 38.

Chicago Pharmacal Company, The, Chicago, Ill. Tablet having analgesic and mild hypnotic properties. Serial No. 457,380; Feb. 16. Class 6.

Chicago Pharmacal Company, The, Chicago, Ill. Vaginal suppository. Serial No. 457,460; Feb. 16. Class 6.

Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Worsted fabrics, primarily for women's outer wear. Serial No. 455,791; Feb. 16. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Blended fabrics which are primarily for women's outer wear. Serial No. 455,792; Feb. 16. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Worsted fabrics for women's and men's suitings. Serial No. 455,793; Feb. 16. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Tweed fabrics for women's and men's outer wear. Serial No. 455,794; Feb. 16. Class 42.

Continental Record Company, Inc., New York, N. Y. Phonograph records. Serial Nos. 457,462–3; Feb. 16. Class 36.

Curtiss-Wright Corporation, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo. Airplanes and structural parts thereof. Serial No. 456,460; Feb. 16. Class 19.

Davis, Joseph M., doing business as Beacon Record Co., New York, N. Y. Phonograph records. Serial No. 457,703; Feb. 16. Class 36.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Synthetic rubber-like compositions. Serial No. 456,237; Feb. 16. Class 50.

Dell Publishing Company, Inc., New York, N. Y. Illustrated story magazines. Serial No. 452,851; Feb. 16. Class 38.

Delta Sigma Phi Fraternity, Springfield, Ohio. Publication. Serial No. 457,414; Feb. 16. Class 38.

Driver-Harris Company, Harrison, N. J. Castings and forgings. Serial No. 456,015; Feb. 16. Class 14.

Driver-Harris Company, Harrison, N. J. House organ. Serial No. 456,791; Feb. 16. Class 38.

Eastern Paint & Varnish Works, Hawthorne, N. J. Paints, varnishes, and paint enamels. Serial No. 453,636; Feb. 16. Class 16.

Electronic Specialty Co. (See Marcus, David A.)

Empire State Mills, Inc., New York, N. Y. Knitted fabrics in the piece. Serial No. 455,752; Feb. 16. Class 42.

Enterprise & Century Undergarment Co., Inc., New York, N. Y. Women's underwear, slips and negligees. Serial No. 456,793; Feb. 16. Class 39.

Ericson, Eric, New York, N. Y. Cartoons. Serial No. 457,760; Feb. 16. Class 38.

Exeter Manufacturing Company, Exeter, N. H., and New York, N. Y. Cotton piece goods. Serial No. 455,912; Feb. 16. Class 42.

Fashion Silks Corp., New York, N. Y. Spun rayon cloth in the piece. Serial No. 457,242; Feb. 16. Class 42.

Field-Ernst Envelope Co., San Francisco, Calif. Envelopes. Serial No. 457,005; Feb. 16. Class 37.

Ford Motor Company, Dearborn, Mich. Synthetic fibers. Serial No. 457,078; Feb. 16. Class 1.

Forsberg Manufacturing Co., The, Bridgeport, Conn. Hack saw blades and power saw blades. Serial No. 455,430; Feb. 16. Class 23.

Fuld, Horace A., Inc., New York, N. Y. Glass pinch bottle novelties. Serial No. 455,300; Feb. 16. Class 50.

Given Bros. Shoe Co., El Paso, Tex. Men's shoes. Serial No. 457,313; Feb. 16. Class 39.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Tanks for storage of gasoline, oil, water, and other liquids. Serial No. 457,151; Feb. 16. Class 2.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Spring pressure brake for use as an attachment to the accelerator pedal of automotive vehicles to serve as a warning against excessive speed. Serial No. 456,387; Feb. 16. Class 23.

Greif Bros. Cooperage Corporation, The, doing business as Seymour & Peck Co., Cleveland, Ohio, and Chicago, Ill. Wooden drums. Serial No. 457,390; Feb. 16. Class 2.

Hamilton Laboratories, Inc., The, Hamilton, Ohio. Packaged germicide for control of pulp and paper mill slimes. Serial No. 457,679; Feb. 16. Class 6.

Henry, Sidney, New York, N. Y. Perfume, toilet water, and lipstick. Serial No. 457,498; Feb. 16. Class 6.

Hill-Shaw Company, Chicago, Ill. Glass coffee brewers. Serial No. 455,073; Feb. 16. Class 13.

Immortal Music Publishing Co. (See Leonard, Harold.)

Interchemical Corporation, New York, N. Y. Paint pigments. Serial No. 456,825; Feb. 16. Class 16.

Jack & Heintz, Inc., Bedford, Ohio. Aircraft automatic pilot horizon and directional gyro control device. Serial Nos. 456,601–2; Feb. 16. Class 26.

Kahn, David, Inc., North Bergen, N. J. Fountain pens, mechanical pencils, combination fountain pens and mechanical pencils, etc. Serial No. 456,874; Feb. 16. Class 37.

Kemp, E. F., Inc., Somerville, Mass. Nuts. Serial No. 457,202; Feb. 16. Class 46.

Lascoff, J. Leon, & Son, New York, N. Y. Mixture for use as an ingredient of ointments and lotions. Serial No. 454,259; Feb. 16. Class 6.

Lazarus, A. S., & Co., Inc., New York, N. Y. Towel sets, sheets and pillow cases, wash cloths, etc. Serial No. 451,629; Feb. 16. Class 42.

Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. Serial No. 456,743; Feb. 16. Class 39.

Leonard, Harold, doing business as The Immortal Music Publishing Co., Long Beach, N. Y. Sheet music. Serial No. 452,536; Feb. 16. Class 38.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal respiratory vaccine. Serial No. 457,626; Feb. 16. Class 6.

Lilly, Eli, and Company, Indianapolis, Ind. Packaged sterile drugs for local application on wounds and infected areas of the body. Serial No. 457,627; Feb. 16. Class 6.

Marcus, David A., doing business as Electronic Specialty Co., Los Angeles, Calif. Radio apparatus. Serial No. 449,997; Feb. 16. Class 21.

Maxim Chemical Works Ltd. (See Baskies, Max.)

McCormick & Co., Incorporated, Baltimore, Md. Roach poison. Serial No. 457,501; Feb. 16. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Antiseptic tannic acid jelly. Serial No. 457,400; Feb. 16. Class 6.

Metro Chocolate Co. Inc., The, New York, N. Y. Candies. Serial No. 445,999; Feb. 16. Class 46.

Nashua Manufacturing Company, Boston, Mass. Blankets. Serial No. 454,457; Feb. 16. Class 42.

National Cylinder Gas Company, Chicago, Ill. Alternating current electric welding apparatus and direct current welding apparatus. Serial No. 456,957; Feb. 16. Class 21.
Nestle's Milk Products, Inc., New York, N. Y. Precooked cereal food. Serial No. 457,563; Feb. 16. Class 46.
Northern Cold Storage and Warehouse Co., doing business as Northern Egg Producers, Duluth, Minn. Eggs. Serial Nos. 451,605–6; Feb. 16. Class 46.
Orloff, Nicholas W., New York, N. Y. Saponaceous compounds, shaving creams, shaving sticks, etc. Serial No. 457,044; Feb. 16. Class 4.
Ovis Watch Co. (See Stern, Jack.)
Perry Food Products Co., Chicago, Ill. Smoked hams and bacon. Serial No. 453,467; Feb. 16. Class 46.
Philco Corporation, Philadelphia, Pa. Metal drive cord, dial drive cord, and control drive cable. Serial No. 449,152; Feb. 16. Class 7.
Plak-Kloz Company, New York, N. Y. Separable fasteners of the button and button hole tape type. Serial No. 456,831; Feb. 16. Class 40.
Planned Foods, Inc., New York, N. Y. Food product for addition to chopped meat, fowl, fish, etc. Serial No. 456,750; Feb. 16. Class 46.
Prime Products, Inc., Tampa, Fla. Fruit and vegetable extracts and juices in solidified form. Serial No. 456,928; Feb. 16. Class 46.
Quality Bakers of America Co-Op., Inc., New York, N. Y. Bread. Serial No. 456,566; Feb. 16. Class 46.
Reynolds, Walter Holland, Takanini, New Zealand. Veterinary preparation. Serial No. 451,020; Feb. 16. Class 6.
Sabella, V., & Co., Inc., New York, N. Y. Canned peeled tomatoes with tomato paste. Serial No. 457,512; Feb. 16. Class 46.
Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. Serial No. 457,709; Feb. 16. Class 6.
Schwarzenbach Huber Co., The, New York, N. Y. Piece goods. Serial No. 454,379; Feb. 16. Class 42.
Selby Shoe Company, The, Portsmouth, Ohio. Shoes. Serial Nos. 453,041–3; Feb. 16. Class 39.
Seymour & Peck Co. (See Greif Bros. Cooperage Corporation, The.)
Shewan-Jones, Inc., New York, N. Y. Brandy. Serial No. 457,054; Feb. 16. Class 49.
Sparkie Beverage Co. (See Zeller, Emil E.)
Stanley Home Products, Inc., Westfield, Mass. Germicides, disinfectants, and deodorizers. Serial No. 456,132; Feb. 16. Class 6.
Stern, Jack, doing business as Ovis Watch Co., New York, N. Y. Watches. Serial No. 457,017; Feb. 16. Class 27.
Suckling Limited, Birmingham, England. Ash-trays, asparagus-dishes, asparagus-eaters, etc. Serial No. 456,909; Feb. 16. Class 28.
Telegraph Construction & Maintenance Company, Limited, The, London, England. Insulated electric cables. Serial No. 456,910; Feb. 16. Class 21.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needle work yarns made of wool. Serial No. 457,454; Feb. 16. Class 43.
United States Gypsum Company, Chicago, Ill. Gypsum cement compositions. Serial No. 449,746; Feb. 16. Class 12.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. Serial No. 457,426; Feb. 16. Class 22.
Van Straaten, Herbert, doing business as van Straaten Chemical Co., Chicago, Ill. Metal degreasing and metal washing compounds. Serial No. 456,348; Feb. 16. Class 6.
Vintage Wines Co. (See Western Wine Corporation.)
Wallace, James Wade, doing business as Wallace Fruit Company, Edinburg, Tex. Fresh citrus fruit and fresh vegetables. Serial No. 457,406; Feb. 16. Class 46.
Weco Products Company, Chicago, Ill. Handkerchiefs. Serial No. 455,776; Feb. 16. Class 39.
Western Wine Corporation, doing business as Vintage Wines Co., Baltimore, Md. Wines. Serial No. 456,376; Feb. 16. Class 47.
Williams, J. B., Company, The, Glastonbury, Conn. Cosmetics. Serial No. 456,480; Feb. 16. Class 6.
Winner Manufacturing Co. Inc., Trenton, N. J. Semi-solid coating material for use in water proofing porous base materials. Serial No. 453,046; Feb. 16. Class 6.
X-Acto Crescent Products, Inc., New York, N. Y. Knives for hobby, arts, and crafts. Serial No. 456,784; Feb. 16. Class 23.
Yates-American Machine Company, Beloit, Wis. Refrigerating apparatus. Serial No. 454,708; Feb. 16. Class 31.
Zeller, Emil E., doing business as Sparkie Beverage Co., Tappahannock, Va. Carbonated beverages. Serial No. 455,687; Feb. 16. Class 45.

LIST OF REGISTRANTS OF TRADE-MARKS

Acromark Corporation, Elizabeth, N. J. Marking devices. 400,073; Feb. 16; Serial No. 453,767; published Dec. 8, 1942. Class 23.
Air Conditioning Utilities Company. (See Fiedler, Harry W.)
Albi Chemical Corporation, New York, N. Y. Chemical preparations. 400,085; Feb. 16; Serial No. 454,568; published Dec. 8, 1942. Class 6.
Allied Chemical and Dye Corporation. (See Barrett Company, The, assignors.)
Amazia Products, Buffalo, N. Y. Hair rinsing solutions. 400,156; Feb. 16; Serial No. 455,898; published Dec. 8, 1942. Class 6.
Amberg File and Index Company, Kankakee, Ill. File folders, guides. 400,096; Feb. 16; Serial No. 455,169; published Dec. 8, 1942. Class 37.
American Automatic Electric Sales Company, Chicago, Ill. Telephones and telephone systems and parts thereof. 400,135; Feb. 16; Serial No. 455,741; published Dec. 8, 1942. Class 21.
American Cyanamid & Chemical Corporation, New York, N. Y. Sizing preparation. 400,056; Feb. 16; Serial No. 448,748; published Dec. 8, 1942. Class 6.
American Fork & Hoe Company, The, Cleveland, Ohio. Fishing baits and lures. 400,128; Feb. 16; Serial No. 455,688; published Dec. 8, 1942. Class 22.
American Fork & Hoe Company, The, Cleveland, Ohio. Fishing baits and lures. 400,131; Feb. 16; Serial No. 455,689; published Dec. 8, 1942. Class 22.
American Fork & Hoe Company, The, Cleveland, Ohio. Hand agricultural implements and hand tools. 400,188; Feb. 16; Serial No. 456,089; published Dec. 8, 1942. Class 23.
American Weekly, Inc., New York, N. Y. Newspaper or magazine section or department. 400,195–6; Feb. 16; Serial Nos. 456,210–11; published Dec. 8, 1942. Class 38.
Anchor Hocking Glass Corporation, Lancaster, Ohio. Glass tableware. 400,145; Feb. 16; Serial No. 455,813; published Dec. 8, 1942. Class 33.
Apem Corporation, Little Rock, Ark. Hair preparation. 400,057; Feb. 16; Serial No. 449,114; published Dec. 8, 1942. Class 6.
Apem Corporation, Little Rock, Ark. Shampoo preparation. 400,058; Feb. 16; Serial No. 449,511; published Dec. 8, 1942. Class 6.
Arabol Mf'g Co., The, New York, N. Y. Adhesive dextrine. 400,130; Feb. 16; Serial No. 456,443; published Dec. 8, 1942. Class 5.
Armstrong Cork Company, Lancaster, Pa. Nursing bottles. 400,209; Feb. 16. Class 44.
Art Crayon Co., Inc., Brooklyn, N. Y. Artists' paints, artists' water colors, and artists' oil colors. 400,070; Feb. 16; Serial No. 453,356; published Dec. 8, 1942. Class 16.
Art Steel Sales Corporation, New York, N. Y. Filing cabinets. 400,141; Feb. 16; Serial No. 455,778; published Dec. 8, 1942. Class 32.
Associated Press, The, New York, N. Y. Comic strip or panel. 400,199; Feb. 16; Serial No. 456,282; published Dec. 8, 1942. Class 38.
Baalmann, J., Manufacturing Chemist. (See Tysmol Co.)
Barrett Company, The, assignor to Allied Chemical and Dye Corporation, New York, N. Y. Mineral-surfaced roll roofing. 163,021; renewed Jan. 2, 1943.
Bellin's Wonderstoen Co., Inc., New York, N. Y. Liquid makeup for the body, particularly the legs. 400,077; Feb. 16; Serial No. 454,110; published Dec. 1, 1942. Class 6.
Bernstein Bros., Los Angeles, Calif. Piece goods. 400,205; Feb. 16. Class 42.
Bianchini Ferier, Inc., New York, N. Y. Piece goods. 400,115; Feb. 16; Serial No. 455,584; published Dec. 8, 1942. Class 42.
Bickiepegs Limited, Welwyn Garden City, England. Soups, soup pastes, soup powder, etc. 400,064; Feb. 16; Serial No. 452,848; published Aug. 18, 1942. Class 46.
Bohemian Distributing Company, also doing business as International Products Company, Los Angeles, Calif. Fruit liqueurs. 400,142; Feb. 16; Serial No. 455,782; published Nov. 8, 1942. Class 49.
Bohemian Distributing Company, Los Angeles, Calif. Vodka. 400,143; Feb. 16; Serial No. 455,783; published Dec. 8, 1942. Class 49.
Bramson Publishing Company, The, Detroit, Mich. Articles published in a trade magazine. 400,193; Feb. 16; Serial No. 456,174; published Dec. 8, 1942. Class 38.
Branower, Edmund I., doing business as Branower Chemical Company, New York, N. Y. Antiseptic, astringent, and deodorant preparations for use on the gums. 400,065; Feb. 16; Serial No. 453,049; published Dec. 1, 1942. Class 6.
Brillo Manufacturing Company, Brooklyn, N. Y. Steel wool. 168,938; renewed May 29, 1943.

Brooks Brothers, New York, N. Y. Cologne preparation. 400,157; Feb. 16; Serial No. 455,906; published Dec. 8, 1942. Class 6.
Brunner, Lamar F., doing business as Utility Fittings, Philadelphia, Pa. Electric conduit fittings, exclusive of lighting fixtures. 170,128; renewed July 10, 1943.
Cambridge Tailoring Company, Baltimore, Md. Men's outer clothing. 400,068; Feb. 16; Serial No. 453,152; published Dec. 8, 1942. Class 39.
Campana Corporation, Batavia, Ill. Make-up preparation. 400,079; Feb. 16; Serial No. 454,285; published Dec. 1, 1942. Class 6.
Central Terrazzo & Tile Company. (See Christy Company, Inc.)
Chicago Nipple Manufacturing Co., Chicago, to Chicago Nipple Manufacturing Co., Chicago, Ill., and Baltimore, Md. Metal pipe nipples. 169,805; renewed July 3, 1943.
Chipman's, Chas., Sons Co. Inc., New York, N. Y. Hosiery. 166,630; renewed Apr. 10, 1943.
Christy Company, Inc., doing business as Central Terrazzo & Tile Company, St. Louis, Mo. Adhesive cement. 400,100; Feb. 16; Serial No. 455,326; published Dec. 8, 1942. Class 5.
Consolidated Textile Co., Inc., New York, N. Y. Cotton piece goods. 400,132; Feb. 16; Serial No. 455,722; published Dec. 8, 1942. Class 42.
Consolidated Textile Co., Inc., New York, N. Y. Cotton piece goods. 400,217–19; Feb. 16. Class 42.
Consolidated Trimming Corporation, New York, N. Y. Narrow fabric for use in pleating draperies and curtains. 400,093; Feb. 16; Serial No. 455,132; published Dec. 8, 1942. Class 40.
Continental Coffee Company, Inc., Chicago, Ill. Tea. 400,054; Feb. 16; Serial No. 447,906; published Dec. 8, 1942. Class 46.
Continental Oil Company, The, Denver, Colo., assignor, by mesne assignments, to Continental Oil Company, Ponca City, Okla. Lubricating oils and greases. 166,155; renewed Mar. 27, 1943.
Cordes, Frederick W., New York, N. Y. Thumb-sucking preventative devices. 400,158; Feb. 16; Serial No. 455,907; published Dec. 8, 1942. Class 44.
Corn Products Refining Company, New York, N. Y. Tapioca starch for manufacturing purposes. 400,169; Feb. 16; Serial No. 455,998; published Dec. 1, 1942. Class 6.
Crawford Watch Co., New York, N. Y. Watches. 400,215; Feb. 16. Class 27.
Crescent Watch-Case Company, Newark, assignor, by mesne assignments, to The Riverside Metal Company, Riverside, N. J. Watch cases. 22,382; re-renewed Jan. 31, 1943.
Cudahy Packing Company, The, Chicago, Ill. Shortening compound. 168,335; renewed May 22, 1943.
Dell Publishing Company, Inc., New York, N. Y. Magazine. 400,220; Feb. 16. Class 38.
Deltox Rug Company, Oshkosh, Wis. Rugs and floor mats. 400,105–6; Feb. 16; Serial Nos. 455,366–7; published Dec. 8, 1942. Class 42.
Dermetics, Inc., Seattle, Wash. Various oils, creams, and lotions applied to the face, body, or scalp. 400,119; Feb. 16; Serial No. 455,649; published Dec. 8, 1942. Class 6.
Detroit Rex Products Company, Detroit, Mich. Solvent material to extract oil from vegetable matter. 400,101; Feb. 16; Serial No. 455,327; published Dec. 8, 1942. Class 6.
Dexdale Hosiery Mills. (See Norristown Hosiery Mills.)
Dick, A. B., Company, Chicago, Ill. Duplicating machines and parts thereof. 166,808; renewed Apr. 17, 1943.
Distillers Company, Limited, The, assignor to The Distillers Agency, Ltd., Edinburgh, Scotland. Whisky. 22,771; re-renewed Apr. 11, 1943.
Dobeckmun Company, The, Cleveland, Ohio. Cover paper comprised of transparent sheeting laminated to paper. 400,038; Feb. 16; Serial No. 438,614; published Dec. 8, 1942. Class 37.
Doleith, Inc., Chicago, Ill. Perfume and cologne. 400,194; Feb. 16; Serial No. 456,181; published Dec. 8, 1942. Class 6.
Donahue, Henry M., doing business as Hoyt Apothecaries Co., San Francisco, Calif. Mouth wash. 170,064; renewed July 10, 1943.
Drake, Alfred E., Manhattan Beach, Calif. Phonograph records. 400,207; Feb. 16. Class 36.
Drexel Furniture Company, Drexel, N. C. Furniture. 400,078; Feb. 16; Serial No. 454,167; published Dec. 8, 1942. Class 32.
Eastern Tablet Corporation, Albany, N. Y. Portfolios made of paper. 400,212; Feb. 16. Class 37.
Eastman Kodak Company, Rochester, N. Y. Rayon piece goods and piece goods. 400,048; Feb. 16; Serial No. 446,777; published Dec. 8, 1942. Class 42.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Rayon piece goods and piece goods. 400,062; Feb. 16; Serial No. 452,523; published Dec. 8, 1942. Class 42.
Eversharp, Inc., Chicago, Ill. Fountain pens and mechanical pencils. 400,171; Feb. 16; Serial No. 456,016; published Dec. 8, 1942. Class 37.
Excitement, Incorporated, Chicago, Ill. Perfumes, colognes, face powder, etc. 400,149; Feb. 16; Serial No. 455,863; published Dec. 1, 1942. Class 6.
Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement apparatus. 400,221; Feb. 16. Class 22.
Eyerly, Lee U., doing business as Eyerly Aircraft Company, Salem, Oreg. Stationary mechanically operated airplane amusement devices. 400,046; Feb. 16; Serial No. 446,320; published Dec. 8, 1942. Class 22.
Fiedler, Harry W., doing business as Air Conditioning Utilities Company, New York, N. Y. Shore connection boxes installed on a ship. 400,107; Feb. 16; Serial No. 455,370; published Dec. 8, 1942. Class 21.
Finkl, A., & Sons Company, Chicago, Ill. Steel dies. 400,088; Feb. 16; Serial No. 454,872; published Dec. 1, 1942. Class 23.
Fisher Body Corporation, assignor to General Motors Corporation, Detroit, Mich. Automobile bodies. 170,152; renewed July 10, 1943.
Fligel, Ben, Co. Inc., New York, N. Y. Wearing apparel for boys and girls. 400,133; Feb. 16; Serial No. 455,725; published Dec. 8, 1942. Class 39.
Foreman Fabrics, Inc., New York, N. Y. Piece goods. 400,166; Feb. 16; Serial No. 455,974; published Dec. 8, 1942. Class 42.
Foreman Fabrics, Inc., New York, N. Y. Piece goods. 400,167; Feb. 16; Serial No. 455,976; published Dec. 8, 1942. Class 42.
Franshaw, Inc., New York, N. Y. Ladies' and men's handkerchiefs and scarfs. 400,150; Feb. 16; Serial No. 455,865; published Dec. 8, 1942. Class 39.
Frederics, John, Inc., New York, N. Y. Women's and misses' hats. 400,151; Feb. 16; Serial No. 455,866; published Dec. 8, 1942. Class 39.
French, Gus H., doing business as French Laboratories, Minneapolis, Minn. Laxative pills. 400,047; Feb. 16; Serial No. 446,493; published May 12, 1942. Class 6.
Freshie Co., The. (See Mackenzie, Katherine M., assignor.)
Friedman-Marks Clothing Company, Inc., Richmond, Va. Men's summer weight suits and coats. 400,045; Feb. 16; Serial No. 445,932; published Dec. 8, 1942. Class 39.
Fuller, W. P., & Co., San Francisco, Calif. Paints, paint enamels, varnishes, etc. 400,063; Feb. 16; Serial No. 452,771; published Dec. 1, 1942. Class 16.
Galen Company, Inc., The, Berkeley, Calif. Beverage consisting of milk supplemented with powdered caro, cocoa, and other ingredients. 400,036; Feb. 16; Serial No. 434,686; published Oct. 21, 1941. Class 46.
Galvin Manufacturing Corporation, Chicago, Ill. Radio receiving apparatus; radio antenna apparatus, combination radio receiving and electric phonograph, etc., and parts of each of the above apparatus. 400,049; Feb. 16; Serial No. 447,019; published Dec. 8, 1942. Class 21.
Gamble Stores, Incorporated, Minneapolis, Minn. Sanitary napkins. 400,195; Feb. 16; Serial No. 456,213; published Dec. 8, 1942. Class 44.
General Motors Corporation. (See Fisher Body Corporation, assignor.)
General Motors Corporation. (See Ternstedt Manufacturing Company, assignor.)
Gerrish, Perley G., assignor to The Squirrel Brand Co., Cambridge, Mass. Nut caramels. 165,781; renewed Mar. 20, 1943.
Ghirardelli, D., Co., San Francisco, Calif. Chocolate powder preparation. 400,206; Feb. 16. Class 46.
Gibbs, R. S., doing business as Standard Wood Preserver Co., New Orleans, La. Wood and fabric preservative termite oil. 400,080; Feb. 16; Serial No. 454,335; published Dec. 1, 1942. Class 6.
Glass, Henry, & Co., New York, N. Y. Ginghams in the piece. 170,230; renewed July 10, 1943.
Goodrich, B. F., Company, The, New York, N. Y. Adhesive tire-repair materials. 163,077; renewed Jan. 2, 1943.
Green Arrow Stamp Co., East Cleveland, Ohio. Trading stamps. 400,037; Feb. 16; Serial No. 436,013; published Dec. 8, 1942. Class 38.
Gross, Wm. H., Chemical Company, San Antonio, Tex. Hair tonic. 170,097; renewed July 10, 1943.
Grossmith, John L., assignor to J. Grossmith & Son, Limited, London, England. Perfumery and perfumed soap. 23,025; re-renewed May 16, 1943.
Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Tablets for the relief of colds, headache, and neuralgia. 400,071; Feb. 16; Serial No. 453,736; published Dec. 1, 1942. Class 6.
Guardian Electric Manufacturing Co., Chicago, Ill. Aircraft propeller protractors. 400,191; Feb. 16; Serial No. 456,144; published Dec. 8, 1942. Class 26.
Guild Products Corporation, Philadelphia, Pa., by change of name to Stationers' Guild of America. Card pins, T pins, and bank pins. 168,903; renewed May 29, 1943.
Guild Products Corporation, Philadelphia, Pa., by change of name to Stationers' Guild of America. Ink eradicators. 169,810; renewed July 3, 1943.
Guild Products Corporation, Philadelphia, Pa., by change of name to Stationers' Guild of America. Writing ink and writing fluid. 169,228; renewed June 12, 1943.

Gulco Chemical Co., Inc., Gulfport, Mo. Preparation for polishing and cleaning automobiles, furniture, finished painted varnishes and enameled surfaces, etc. 400,053; Feb. 16; Serial No. 447,736; published Dec. 8, 1942. Class 16.

Haensel, Alma S., doing business as Woodfashions, Milwaukee, Wis. Household partition screens. 400,210; Feb. 16. Class 32.

Harbourts Drug Company, Trenton, N. J. Medicinal preparation. 400,040; Feb. 16; Serial No. 440,781; published Apr. 7, 1942. Class 6.

Harman, Vivian M., doing business as Harman Equipment Co., Los Angeles, Calif. Oil dispensing trailers. 400,086; Feb. 16; Serial No. 454,634; published Dec. 8, 1942. Class 19.

Harvey, G. F., Company, The, Saratoga Springs, N. Y. Liquid medicinal preparation indicated in dermatitis. 400,108; Feb. 16; Serial No. 455,480; published Dec. 8, 1942. Class 6.

Hayman, Oscar, New York, N. Y. Piece goods. 400,089; Feb. 16; Serial No. 455,004; published Dec. 8, 1942. Class 42.

Hearst Magazines Inc., New York, N. Y. Periodical. 400,039; Feb. 16; Serial No. 439,966; published Dec. 1, 1942. Class 38.

Hego Fabrics, Inc., New York, N. Y. Piece goods. 400,208; Feb. 16. Class 42.

Heirloom Needlework Guild, Inc., New York, N. Y. Stuffed animal toys and outfits for making stuffed animal toys. 400,190; Feb. 16; Serial No. 456,121; published Dec. 8, 1942. Class 22.

Hoffman, Rube P., Los Angeles, Calif. Wool, cotton, rayon, and silk piece goods. 400,095; Feb. 16; Serial No. 455,161; published Dec. 8, 1942. Class 42.

Holman, A. J., Company, Philadelphia, Pa. Bibles. 400,094; Feb. 16; Serial No. 455,141; published Dec. 1, 1942. Class 38.

Hooper, Wm. E., & Sons Co., Baltimore, Md. Cotton-duck paper felts, oil-press cloth, cider-press cloth, etc. 166,061; renewed Mar. 27, 1943.

Hooper, Wm. E., & Sons, Co., Woodberry, to Wm. E. Hooper & Sons Co., Baltimore, Md. Receptacles. 164,014; renewed Feb. 6, 1943.

Horn-Shafer Company, The, Baltimore, Md. Game boards. 400,159; Feb. 16; Serial No. 455,917; published Dec. 8, 1942. Class 22.

Hoyt Apothecaries Co. (See Donahue, Henry M.)

Hudnut, Richard, New York, N. Y. Toilet preparations. 168,234; renewed May 15, 1943.

Hulse, M. E., doing business as Hulse Import Co., San Francisco, Calif. Rum. 400,214; Feb. 16. Class 49.

Humber Limited, Coventry, England. Cycles. 167,729; renewed May 8, 1943.

Hygrade Provision Co., Inc., Brooklyn, assignor to Hygrade Food Products Corporation, New York, N. Y. Meat products. 170,210; renewed July 10, 1943.

Ideal Roller & Manufacturing Company, Chicago, Ill. Rollers for printing presses, lithographic presses, hectograph masses, etc. 170,010; renewed July 10, 1943.

Indianapolis Glove Co., Indianapolis, Ind. Work gloves and work mittens. 400,042; Feb. 16; Serial No. 442,171; published Sept. 16, 1941. Class 39.

International Products Company. (See Bohemian Distributing Company.)

International Silver Company, Meriden, Conn. Silver-plated flatware. 166,588; renewed Apr. 10, 1943.

Jack Rabbit Company, Spartanburg, S. C. Photographs and photographic prints. 400,044; Feb. 16; Serial No. 444,683; published Jan. 6, 1942. Class 38.

Jenkins Bros., Boston, Mass, New York, N. Y., and Chicago, Ill., assignor to Jenkins Bros., New York, N. Y., and Bridgeport, Conn. Valves and steam-packing supplies. 22,335; re-renewed Jan. 10, 1943.

Johnson & Johnson, New Brunswick, N. J. Baby oil. 400,154; Feb. 16; Serial No. 455,887; published Dec. 8, 1942. Class 6.

Kellogg, H., & Sons, to William B. Mackey, doing business as H. Kellogg & Sons, Philadelphia, Pa., successor. Grape juice, gingerale, sarsaparilla, etc. 169,092; renewed Dec. 5, 1942.

Kensington Steel Company, Chicago, Ill. Gears, pinions, mixer arms, etc. 400,059; Feb. 16; Serial No. 450,206; published Dec. 1, 1942. Class 23.

Kingston Watch Company, New York, N. Y. Watches. 400,216; Feb. 16. Class 27.

Kinosan Laboratories. (See Michelotti, Emilio.)

Kugel, B., Co., Inc. (See Vogue Needlecraft Company, assignor.)

Lake Placid Packing Company, Lake Placid, Fla. Fresh oranges, grapefruit, and tangerines. 400,213; Feb. 16. Class 46.

Lawson, Elmer W., and Charles Monrow, Turlock, Calif. Ointment for the treatment of athlete's foot, and other foot ailments. 400,061; Feb. 16; Serial No. 452,074; published Dec. 1, 1942. Class 6.

Lee Paper Company, Vicksburg, Mich. Bond paper. 165,321; renewed Mar. 6, 1943.

Lee Rubber and Tire Corporation, Youngstown, Ohio. Conveyor and elevator belting. 400,224; Feb. 16. Class 36.

Lehon Company, The, Chicago, Ill. Asphalt shingle. 167,908; renewed May 8, 1943.

Leininger, Wm. G., Knitting Co., Inc., Mohnton, Pa. Hosiery. 400,192; Feb. 16; Serial No. 456,151; published Dec. 8, 1942. Class 39.

Lerner, Samuel S., New York, N. Y. Tonic food beverage. 400,052; Feb. 16; Serial No. 447,663; published Dec. 8, 1942. Class 46.

Levy Bros. & Adler Rochester, Inc., Rochester, N. Y. Men's suits and overcoats. 400,051; Feb. 16; Serial No. 447,291; published Dec. 16, 1941. Class 39.

Lido Luggage Co., Inc., New York, N. Y. Hand luggage. 400,172; Feb. 16; Serial No. 456,020; published Dec. 8, 1942. Class 3.

Lockwood, Lawrence A., doing business as Lockwood Products, Chicago, Ill. Sets of insulated containers adapted to hold nursing bottles and heat retaining nursing bottle holders. 400,082; Feb. 16; Serial No. 454,424; published Dec. 8, 1942. Class 44.

Lockwood, Lawrence A., doing business as Lockwood Products, Chicago, Ill. Combination dining tray and removable dish and cup. 400,083; Feb. 16; Serial No. 454,426; published Dec. 8, 1942. Class 2.

Loose Wiles Biscuit Company, New York, to Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, wafers, crackers, etc. 163,596; renewed Jan. 23, 1943.

Mackenzie, Katherine M., assignor, by mesne assignments, to The Freshie Co., Inc., New York, N. Y. Toilet article. 164,478; renewed Feb. 20, 1943.

Mackey, William B. (See Kellogg, H., & Sons.)

Magansco, Luis, & Cia. Ltda. Mantequeria Modelo Sociedad Anon., Buenos Aires, Argentina. Butter and cheese. 400,204; Feb. 16. Class 46.

Marsh, Payson, Inglewood, Calif. Furniture and woodwork polish. 400,136; Feb. 16; Serial No. 455,759; published Dec. 8, 1942. Class 16.

Marshall Field & Company, Chicago, Ill. Rugs. 400,102; Feb. 16; Serial No. 455,331; published Dec. 8, 1942. Class 42.

Marshall Field & Company, Chicago, Ill. Rugs. 400,103; Feb. 16; Serial No. 455,333; published Dec. 8, 1942. Class 42.

Martin Sons and Company Limited, Lindley, Huddersfield, England. Cloths and stuffs of wool, worsted, or hair. 158,014; renewed Aug. 22, 1942.

May, O. J., Sutton, Nebr. Liniment. 400,198; Feb. 16; Serial No. 456,260; published Dec. 8, 1942. Class 6.

McDowell, Pyle & Co., Inc., assignor to McDowell, Pyle & Co., Baltimore, Md. Candy. 169,248; renewed June 12, 1943.

McLaurin-Jones Co., Brookfield, Mass. Wrapping paper. 170,273; renewed July 10, 1943.

Metro Chocolate Co. Inc., The, Brooklyn, N. Y. Candies. 400,146; Feb. 16; Serial No. 455,825; published Dec. 8, 1942. Class 46.

Michelotti, Emilio, doing business as Kinosan Laboratories, Brooklyn, N. Y. Bitter stomachic appetizer. 400,092; Feb. 16; Serial No. 455,106; published Dec. 1, 1942. Class 6.

Mme. Leo Products Co. (See Rowden, Mary E.)

Monrow, Charles. (See Lawson, E. W., and Monrow.)

Monsanto Chemical Company, St. Louis, Mo. Dibenzothiazyl disulfide used in the curing of rubber articles. 400,173; Feb. 16; Serial No. 456,023; published Dec. 8, 1942. Class 6.

Montgomery Ward & Co., Incorporated, Chicago, Ill. Pneumatic tires and pneumatic inner tubes. 400,109; Feb. 16; Serial No. 455,484; published Dec. 8, 1942. Class 35.

Moore, John Hudson, Inc., New York, N. Y. Smoking tobacco. 400,081; Feb. 16; Serial No. 454,373; published Dec. 15, 1942. Class 17.

Music Periodicals Corporation. (See Musical Courier Company, Inc.)

Musical Courier Company, Inc., to Music Periodicals Corporation, New York, N. Y., successor. Musical magazine. 162,324; renewed Dec. 12, 1942.

National Lead Company. (See Titanium Pigment Company, Inc., assignor.)

Newman, Milton, doing business as Quaker Maid Mills, Philadelphia, Pa. Toilet lid covers, bath mats and rugs. 400,076; Feb. 16; Serial No. 454,101; published Dec. 8, 1942. Class 42.

New York Merchandise Co., Inc., New York, N. Y. Money belts. 400,174; Feb. 16; Serial No. 456,026; published Dec. 8, 1942. Class 3.

Niagara Alkali Company Niagara Falls, N. Y. Caustic soda, caustic potash, carbonate of potash, etc. 400,175; Feb. 16; Serial No. 456,028; published Dec. 1, 1942. Class 6.

Nion Corporation, Los Angeles, Calif. Vitamin capsules. 400,098; Feb. 16; Serial No. 455,239; published Dec. 1, 1942. Class 6.

Norristown Hosiery Mills, Lansdale, Pa., by change of name to Dexdale Hosiery Mills. Hosiery. 167,826; renewed May 8, 1943.

North American Rayon Corporation, New York, N. Y. Thread and yarn of artificial origin. 400,176; Feb. 16; Serial No. 456,029; published Dec. 1, 1942. Class 43.

Northwestern Consolidated Milling Company, The, Minneapolis, Minn., assignor to Standard Milling Company, New York, N. Y. Wheat flour. 167,627; renewed May 1, 1943.

Nyal Company, Detroit, Mich. Counterirritant, rubefacient and analgesic ointment. 400,120; Feb. 16; Serial No. 455,662; published Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Mouth Wash. 400,121; Feb. 16; Serial No. 455,663; published Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Toothpaste. 400,122; Feb. 16. Serial No. 455,664; published Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Hair dressing. 400,123; Feb. 16; Serial No. 455,665; Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Antiseptic mouth wash. 400,124; Feb. 16; Serial No. 455,666; published Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Body lotion. 400,125; Feb. 16; Serial No. 455,668; published Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Preparation for the treatment of irritations of the skin. 400,126; Feb. 16; Serial No. 455,670; published Dec. 1, 1942. Class 6.
Nyal Company, Detroit, Mich. Preparation for the relief of pain. 400,127; Feb. 16; Serial No. 455,672; published Dec. 1, 1942. Class 6.
Obecny, John T., Los Angeles, Calif. Work holders. 400,090; Feb. 16; Serial No. 455,026; published Dec. 8, 1942. Class 23.
Oil Country Specialties Mfg. Co., The, Coffeyville, Kans., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Drilling and pumping equipment. 400,087; Feb. 16; Serial No. 454,696; published Dec. 8, 1942. Class 23.
Olivieri, Natole. (See Specialty Soda Water Bottling Company.)
Originalities, Inc., New York, N. Y. Indoor quoit game. 400,129; Feb. 16; Serial No. 456,429; published Dec. 8, 1942. Class 22.
Osterbauer, Edwin J., doing business as The Oster-Bauer Shop, Rockford, Ill. Salt and pepper servers. 400,160; Feb. 16; Serial No. 455,928; published Dec. 8, 1942. Class 2.
Panoramic Radio Corporation, New York, N. Y. Radio equipment serving for giving a visual indication of the frequency spectrum. 400,155; Feb. 16; Serial No. 455,890; published Dec. 8, 1942. Class 26.
Parkersburg Rig & Reel Company, The. (See Oil Country Specialties Mfg. Co., The, assignor.)
Pee-Chee Cleaner Manufacturing Company, assignor to Pee-Chee Cleaner, Inc., Cleveland, Ohio. Shoe polishes and cleaners. 168,054; renewed May 15, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Children's ready-to-wear clothing. 166,691; renewed Apr. 10, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Cotton piece goods. 168,735; renewed May 29, 1943.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Laundry bluing. 400,066; Feb. 16; Serial No. 453,066; published July 14, 1942. Class 6.
Perfect Manufacturing Co., The, Cincinnati, Ohio. Stair treads. 400,091; Feb. 16; Serial No. 455,029; published Dec. 8, 1942. Class 50.
Phillips, Henry, Barryton, Mich. Plant balls. 400,112; Feb. 16; Serial No. 455,541; published Dec. 8, 1942. Class 1.
Pollard Oil Products Company, Milwaukee, Wis. Foundry supplies, specifically, core wash; mudding compound; pattern coating material, etc. 400,164; Feb. 16; Serial No. 455,941; published Dec. 8, 1942. Class 1.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece. 400,177–9; Feb. 16; Serial Nos. 456,034–6; published Dec. 8, 1942. Class 42.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece. 400,180–2; Feb. 16; Serial Nos. 456,038–40; published Dec. 8, 1942. Class 42.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece. 400,183; Feb. 16; Serial No. 456,043; published Dec. 8, 1942. Class 42.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece. 400,184; Feb. 16; Serial No. 456,046; published Dec. 8, 1942. Class 42.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece. 400,185; Feb. 16; Serial No. 456,048; published Dec. 8, 1942. Class 42.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 164,748; renewed Feb. 27, 1943.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 165,004; renewed Feb. 27, 1943.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 168,168; renewed May 15, 1943.
Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 168,236; renewed May 15, 1943.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Pharmaceutical preparation. 400,147; Feb. 16; Serial No. 455,849; published Dec. 1, 1942. Class 6.
Press-Union Publishing Company, Atlantic City, N. J. Title of its daily publication. 167,593; renewed May 1, 1943.
Quaker Maid Mills. (See Newman, Milton.)
Radio Frequency Laboratories, Inc., Boonton, N. J. Radio equipment. 169,478; renewed June 19, 1943.
Reedsburg Foods Corporation, Reedsburg, Wis. Canned corn. 400,152; Feb. 16; Serial No. 455,873; published Dec. 8, 1942. Class 46.
Remington Rand, Inc., Buffalo, N. Y. Typewriters. 400,200; Feb. 16; Serial No. 456,325; published Dec. 8, 1942. Class 23.
Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. 400,165; Feb. 16; Serial No. 455,956; published Dec. 8, 1942. Class 39.
Rexclif Products Co. (See Rowell, Clyde.)
Ric Products Inc., Philadelphia, Pa. Perfume sticks. 400,168; Feb. 16; Serial No. 455,987; published Dec. 8, 1942. Class 6.
Riverside Metal Company, The. (See Crescent Watch-Case Company, assignor.)
Rogers & Hubbard Company, The, Portland, Conn. Fertilizers. 170,076; renewed July 10, 1943.
Rokwell Industries, Inc., St. Louis, Mo. Cylindrical coil spring motors for model airplanes. 400,153; Feb. 16; Serial No. 455,874; published Dec. 8, 1942. Class 22.
Rowden, Mary E., doing business as Mme. Leo Products Co., Seattle, Wash., to Mary E. Rowden, Jersey City, N. J. Facial pack pastes. 160,279; renewed Oct. 17, 1942.
Rowell, Clyde, doing business as Rexclif Products Co., Portland, Oreg. Spray deodorants. 400,144; Feb. 16; Serial No. 455,805; published Dec. 1, 1942. Class 6.
Royal Society, Inc., New York, N. Y. Cotton yarn. 400,050; Feb. 16; Serial No. 447,271; published Dec. 1, 1942. Class 43.
Royal Typewriter Company, Inc., New York, N. Y. Inking ribbons and carbon paper. 400,189; Feb. 16; Serial No. 456,109; published Dec. 8, 1942. Class 11.
Sackett, H. B., Screen & Chute Company, Chicago, Ill. Scoops, shovels, and steel chutes. 170,018; renewed July 10, 1943.
Schein Brothers, Inc., New York, N. Y. Hat pins. 400,116; Feb. 16; Serial No. 455,601; published Dec. 8, 1942. Class 40.
Schering & Glatz, Inc., New York, N. Y., assignor, by mesne assignments, to Schering Corporation, Bloomfield, N. J. Medicinal preparation. 169,629; renewed June 26, 1943.
Schleicher, Carl, & Schuell Company, New York, N. Y. Filter papers, filter pulp, filter and extraction thimbles, etc. 400,074; Feb. 16; Serial No. 453,850; published Dec. 8, 1942. Class 31.
Schluderberg, George, trading as Wm. Schluderberg & Son, Highlandtown and Baltimore, assignor to William Schluderberg-T. J. Kurdle Co., Baltimore, Md. Pork and beef products. 163,395; renewed Jan. 9, 1943.
Schwank, C. W., Corporation, Baltimore, Md. Pine disinfectants, insecticides, deodorant blocks, etc. 400,138; Feb. 16; Serial No. 455,770; published Dec. 1, 1942. Class 6.
Sea Island Mills, Inc., New York, N. Y. Water repellent and waterproof fabrics. 400,060; Feb. 16; Serial No. 450,978; published Dec. 8, 1942. Class 50.
Sealright Co., Inc., Fulton, N. Y. Cartons. 400,067; Feb. 16; Serial No. 453,089; published Dec. 8, 1942. Class 2.
Security Mills, Inc., Newton, Mass., and New York, N. Y. Pile fabrics in the piece. 400,134; Feb. 16; Serial No. 455,739; published Nov. 24, 1942. Class 42.
Selmer, H. & A., Inc., Elkhart, Ind. Combination foldable desks and music stands. 400,137; Feb. 16; Serial No. 455,766; published Dec. 8, 1942. Class 36.
Shirley Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. 400,117; Feb. 16; Serial No. 455,614; published Nov. 24, 1942. Class 42.
Shlansky, Philip, & Bro., Inc., New York, N. Y. Woolen and worsted fabrics. 400,187; Feb. 16; Serial No. 456,085; published Dec. 8, 1942. Class 42.
Smith, G. Edwin, Shoe Company, The, Columbus, Ohio. Women's shoes. 400,148; Feb. 16; Serial No. 455,853; published Dec. 8, 1942. Class 39.
So-Low Works. (See Perfect Manufacturing Co., The.)
Song Lyrics, Inc., New York, N. Y. Publication. 400,222; Feb. 16. Class 38.
Specialty Soda Water Bottling Company, to Natole Olivieri, doing business as Specialty Soda Water Bottling Company, Garfield, N. J., successor. Maltless beverage. 168,971; renewed May 29, 1943.
Squirrel Brand Co., The. (See Gerrish, Perley G., assignor.)
Standard Chemical Products, Inc., Hoboken, N. Y. Chemical preparation in liquid form. 400,110; Feb. 16; Serial No. 455,486; published Dec. 1, 1942. Class 6.
Standard Knitting Mills, to Standard Knitting Mills, Inc., Knoxville, Tenn., successor. Knitted fabric underwear for men and boys. 166,687; renewed Apr. 10, 1943.
Standard Knitting Mills, to Standard Knitting Mills, Inc., Knoxville, Tenn., successor. Knitted underwear for men and boys. 166,709; renewed Apr. 10, 1943.
Standard Milling Company. (See Northwestern Consolidated Milling Company, The, assignor.)
Standard Wood Preserver Co. (See Gibbs, R. S.)
Stationers' Guild of America. (See Guild Products Corporation.)
Sterling Tool Products Company, Chicago, Ill. Sanding or polishing machines. 400,055; Feb. 16; Serial No. 448,684; published Apr. 28, 1942. Class 23.

Sturm, Milton L., doing business as Milton Sturm & Co. Chicago, Ill. Novelty furniture. 400,097; Feb. 16; Serial No. 455,213; published Dec. 8, 1942. Class 32.
Stylecraft Lingerie, Inc., New York, N. Y. Ladies' and misses' slips. 400,104; Feb. 16; Serial No. 455,353; published Dec. 8, 1942. Class 39.
Sulflo, Inc., Elizabeth, N. J. Metal cutting lubricating compound. 400,211; Feb. 16. Class 15.
Sunset Laboratories, Glendale, Calif. Liquid chemical product having food value. 400,170; Feb. 16; Serial No. 456,007; published Dec. 1, 1942. Class 6.
Swift and Company, Chicago, Ill. Eggs. 165,125; renewed Mar. 6, 1943.
Tabak, Louis, Los Angeles, Calif. Men's and women's clothing. 400,075; Feb. 16; Serial No. 453,994; published Dec. 8, 1942. Class 39.
Tabak, Louis, Los Angeles, Calif. Slacks, playsuits, dresses, etc., for women, misses, and girls. 400,111; Feb. 16; Serial No. 455,522; published Dec. 1, 1942. Class 39.
Ternstedt Manufacturing Company, assignor to General Motors Corporation, Detroit, Mich. Automobile body hardware. 166,436; renewed Apr. 3, 1943.
Ternstedt Manufacturing Company, assignor to General Motors Corporation, Detroit, Mich. Automobile body hardware. 167,214; renewed Apr. 24, 1943.
Ternstedt Manufacturing Company, assignor to General Motors Corporation, Detroit, Mich. Automobile body hardware. 167,217; renewed Mar. 24, 1943.
Thrift Packing Company, Dallas, Tex. Canned vegetables. 400,203; Feb. 16. Class 46.
Titanium Pigment Company, Inc., Niagara Falls, assignor to National Lead Company, New York, N. Y. Paints. 168,764; renewed May 29, 1943.
Trabert & Hoeffer Inc., New York, N. Y. Diamonds and precious stones. 400,084; Feb. 16; Serial No. 454,440; published Sept. 29, 1942. Class 28.
Tysmol Co., to J. Baalmann Manufacturing Chemist, San Francisco, Calif. Preparation for neuritis sciatica, neuralgia, etc. 163,189; renewed Jan. 2, 1943.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needlework yarns. 400,113; Feb. 16; Serial No. 455,546; published Nov. 17, 1942. Class 43.
United Dairy Equipment Company, West Chester, Pa. Machines for emulsifying butter fats, milk solids, and water. 400,202; Feb. 16; Serial No. 456,500; published Dec. 15, 1942. Class 23.
United States Mineral Wool Company, Chicago, Ill. Mineral wool. 400,041; Feb. 16; Serial No. 441,887; published Sept. 8, 1942. Class 12.
United States Rubber Company, New York, N. Y. Cotton yarns. 400,118; Feb. 16; Serial No. 455,636; published Nov. 17, 1942. Class 43.
Universal Dental Company, Philadelphia, Pa. Artificial teeth. 400,186; Feb. 16; Serial No. 456,060; published Dec. 8, 1942. Class 44.
Utility Fittings. (See Brunner, Lamar F.)
Vanguard Sales Corporation, New York, N. Y. Cream for application to the hands. 400,099; Feb. 16; Serial No. 455,286; published Dec. 1, 1942. Class 6.
Vanity Fair Silk Mills, Reading, Pa., by change of name to Vanity Fair Mills, Inc. Underwear, nightgowns, pyjamas, etc. 166,728; renewed Apr. 10, 1943.
Van Lill Preserving Company, to S. J. Van Lill Co., Baltimore, Md., successor. Preserves, jellies, fruit-butters, etc. 23,254; re-renewed June 27, 1943.
Visible Index Corp., New York, N. Y. Posting trays, desks, file cabinets, etc. 400,114; Feb. 16; Serial No. 455,547; published Dec. 8, 1942. Class 32.
Vitamins Plus Incorporated, New York, N. Y. Vitamin tablets. 400,162–3; Feb. 16; Serial Nos. 455,937–8; published Dec. 1, 1942. Class 6.
Vita-Var Corporation, Newark, N. J. Paints, paint enamels, and varnishes. 400,161; Feb. 16; Serial No. 455,936; published Dec. 8, 1942. Class 16.
Vogue Needlecraft Company, assignor to B. Kugel Co., Inc., New York, N. Y. Pompon yarn. 400,043; Feb. 16; Serial No. 442,613; published Nov. 24, 1942. Class 43.
Walker, Tom, & Company, Glenfield, Pa. Whiskey. 400,139–40; Feb. 16; Serial Nos. 455,774–5; published Dec. 1, 1942. Class 49.
Warner, Charles, Company, Wilmington, Del., assignor to Warner Company, Wilmington, Del., and Philadelphia, Pa. Hydrated lime. 170,222; renewed July 10, 1943.
West Coast Macaroni Mfg. Co., Inc., Oakland, Calif. Spaghetti, vermicelli, macaroni, etc. 400,069; Feb. 16; Serial No. 453,349; published Dec. 8, 1942. Class 46.
Wight, Frank L., Distilling Company, The, Loreley, Md. Whiskey. 400,223; Feb. 16. Class 49.
Winn-Billings Co., Los Angeles, Calif. Tools with ink supply and ink distributing means including means for marking code insignia on defense materials. 400,072; Feb. 16; Serial No. 453,766; published Dec. 8, 1942. Class 23.
Woodfashions. (See Haensel, Alma S.)
Woolsey, C. A., Paint & Color Co., Inc., New York, N. Y. Paints used as protective coatings, marine paints of all kinds, copper bottom paints, etc. 400,201; Feb. 16; Serial No. 456,355; published Dec. 8, 1942. Class 16.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Foundry supplies, specifically, core wash; mudding compound; pattern coating material, etc. Pollard Oil Products Company. 400,164; Feb. 16; Serial No. 455,941; published Dec. 8, 1942.
Plant balls. H. Phillips. 400,112; Feb. 16; Serial No. 455,541; published Dec. 8, 1942.

CLASS 2

Cartons. Sealright Co. 400,067; Feb. 16; Serial No. 453,089; published Dec. 8, 1942.
Receptacles. Wm. E. Hooper & Sons Co. 164,014; renewed Feb. 6, 1943.
Servers, Salt and pepper. E. J. Osterbauer. 400,160; Feb. 16; Serial No. 455,928; published Dec. 8, 1942.
Tray and removable dish and cup, Combination dining. L. A. Lockwood. 400,083; Feb. 16; Serial No. 454,426; published Dec. 8, 1942.

CLASS 3

Belts, Money. New York Merchandise Co. 400,174; Feb. 16; Serial No. 456,026; published Dec. 8, 1942.
Luggage, Hand. Lido Luggage Co. 400,172; Feb. 16; Serial No. 456,020; published Dec. 8, 1942.

CLASS 4

Polishes and cleaners. Shoe. Pee-Chee Cleaner Manufacturing Company. 168,054; renewed May 15, 1943.
Steel wool. Brillo Manufacturing Company. 168,938; renewed May 29, 1943.

CLASSES 4 AND 6

Perfumery and perfumed soap. J. L. Grossmith. 23,025; re-renewed May 16, 1943.

CLASS 5

Cement, Adhesive. Christy Company. 400,100; Feb. 16; Serial No. 455,326; published Dec. 8, 1942.
Dextrine, Adhesive. Arabol Mf'g Co. 400,130; Feb. 16; Serial No. 456,443; published Dec. 8, 1942.

CLASS 6

Antiseptic, astringent, and deodorant preparations for use on the gums. E. I. Branower. 400,065; Feb. 16; Serial No. 453,049; published Dec. 1, 1942.
Antiseptic mouth wash. Nyal Company. 400,124; Feb. 16; Serial No. 455,666; published Dec. 1, 1942.
Appetizer, Bitter stomachic. E. Michelotti. 400,092; Feb. 16; Serial No. 455,106; published Dec. 1, 1942.
Bluing, Laundry. Pennsylvania Salt Manufacturing Company. 400,066; Feb. 16; Serial No. 453,066; published July 14, 1942.
Body lotion. Nyal Company. 400,125; Feb. 16; Serial No. 455,668; published Dec. 1, 1942.
Chemical preparation in liquid form. Standard Chemical Products, Inc. 400,110; Feb. 16; Serial No. 455,486; published Dec. 1, 1942.
Chemical preparations. Albi Chemical Corporation. 400,085; Feb. 16; Serial No. 454,568; published Dec. 8, 1942.
Cologne preparation. Brooks Brothers. 400,157; Feb. 16; Serial No. 455,906; published Dec. 8, 1942.
Cream for application to the hands. Vanguard Sales Corporation. 400,099; Feb. 16; Serial No. 455,286; published Dec. 1, 1942.
Deodorants, Spray. C. Rowell. 400,144; Feb. 16; Serial No. 455,805; published Dec. 1, 1942.
Dibenzothiazyl disulfide used in the curing of rubber articles. Monsanto Chemical Company. 400,173; Feb. 16; Serial No. 456,023; published Dec. 8, 1942.
Disinfectants, insecticides, deodorant blocks, etc., Pine. C. W. Schwank Corporation. 400,138; Feb. 16; Serial No. 455,770; published Dec. 1, 1942.
Eradicators, Ink. Guild Products Corporation. 169,810; renewed July 3, 1943.
Facial pack pastes. M. E. Rowden. 160,279; renewed Oct. 17, 1942.
Hair dressing. Nyal Company. 400,123; Feb. 16; Serial No. 455,665; published Dec. 1, 1942.
Hair preparation. Apem Corporation. 400,057; Feb. 16; Serial No. 449,114; published Dec. 8, 1942.
Hair rinsing solutions. Amazia Products. 400,156; Feb. 16; Serial No. 455,898; published Dec. 8, 1942.
Hair tonic. Wm. H. Gross Chemical Company. 170,097; renewed July 10, 1943.
Laxative pills. G. H. French. 400,047; Feb. 16; Serial No. 446,493; published May 12, 1942.
Liniment. O. J. May. 400,198; Feb. 16; Serial No. 456,260; published Dec. 8, 1942.

Liquid chemical product having food value. Sunset Laboratories. 400,170; Feb. 16; Serial No. 456,007; published Dec. 1, 1942.
Liquid makeup for the body, particularly the legs. Bellin's Wonderstoen Co. 400,077; Feb. 16; Serial No. 454,110; published Dec. 1, 1942.
Material to extract oil from vegetable matter, Solvent. Detroit Rex Products Company. 400,101; Feb. 16; Serial No. 455,327; published Dec. 8, 1942.
Medicinal preparation. Harbourts Drug Company. 400,040; Feb. 16; Serial No. 440,781; published Apr. 7, 1942.
Medicinal preparation. Schering & Glatz, Inc. 169,629; renewed June 26, 1943.
Medicinal preparation indicated in dermatitis, Liquid. G. F. Harvey Company. 400,108; Feb. 16; Serial No. 455,480; published Dec. 8, 1942.
Mouth wash. H. M. Donahue. 170,064; renewed July 10, 1943.
Mouth wash. Nyal Company. 400,121; Feb. 16; Serial No. 455,663; published Dec. 1, 1942.
Oil, Baby. Johnson & Johnson. 400,154; Feb. 16; Serial No. 455,887; published Dec. 8, 1942.
Oil, Wood and fabric preservative termite. R. S. Gibbs. 400,080; Feb. 16; Serial No. 454,335; published Dec. 1, 1942.
Oils, creams, and lotions applied to the face, body or scalp, Various. Dermetics, Inc. 400,119; Feb. 16; Serial No. 455,649; published Dec. 8, 1942.
Ointment, Counterirritant, rubefacient, and analgesic. Nyal Company. 400,120; Feb. 16; Serial No. 455,662; published Dec. 1, 1942.
Ointment for the treatment of athlete's foot, and other foot ailments. Elmer W. Lawson and Charles Monrow. 400,061; Feb. 16; Serial No. 452,074; published Dec. 1, 1942.
Perfume and cologne. Doleith, Inc. 400,194; Feb. 16; Serial No. 456,181; published Dec. 8, 1942.
Perfume sticks. Ric Products Inc. 400,168; Feb. 16; Serial No. 455,987; published Dec. 8, 1942.
Perfumes, colognes, face powders, etc. Excitement, Incorporated. 400,149; Feb. 16; Serial No. 455,863; published Dec. 1, 1942.
Pharmaceutical preparation. Premo Pharmaceutical Laboratories, Inc. 400,147; Feb. 16; Serial No. 455,849; published Dec. 1, 1942.
Preparation for neuritis, sciatica, neuralgia, etc. Tysmol Co. 163,189; renewed Jan. 2, 1943.
Preparation for the relief of pain. Nyal Company. 400,127; Feb. 16; Serial No. 455,672; published Dec. 1, 1942.
Preparation for the treatment of irritations of the skin. Nyal Company. 400,126; Feb. 16; Serial No. 455,670; published Dec. 1, 1942.
Preparation, Make-up. Campana Corporation. 400,079; Feb. 16; Serial No. 454,285; published Dec. 1, 1942.
Shampoo preparation. Apem Corporation. 400,058; Feb. 16; Serial No. 449,511; published Dec. 8, 1942.
Sizing preparation. American Cyanamid & Chemical Corporation. 400,056; Feb. 16; Serial No. 448,748; published Dec. 8, 1942.
Soda, caustic potash, carbonate of potash, Caustic. Niagara Alkali Company. 400,175; Feb. 16; Serial No. 456,028; published Dec. 1, 1942.
Starch for manufacturing purposes, Tapioca, Corn Products Refining Company. 400,169; Feb. 16; Serial No. 455,998; published Dec. 1, 1942.
Tablets for the relief of colds, headache, and neuralgia. Grove Laboratories, Inc. 400,071; Feb. 16; Serial No. 453,736; published Dec. 1, 1942.
Toilet article. K. M. Mackenzie. 164,478; renewed Feb. 20, 1943.
Toilet preparations. R. Hudnut. 168,234; renewed May 15, 1943.
Toothpaste. Nyal Company. 400,122; Feb. 16; Serial No. 455,664; published Dec. 1, 1942.
Vitamin capsules. Nion Corporation. 400,098; Feb. 16; Serial No. 455,239; published Dec. 1, 1942.
Vitamin tablets. Vitamins Plus Incorporated. 400,162–3; Feb. 16; Serial Nos. 455,937–8; published Dec. 1, 1942.

CLASS 10

Fertilizers. Rogers & Hubbard Company. 170,076; renewed July 10, 1943.

CLASS 11

Ink and writing fluid, Writing. Guild Products Corporation. 169,228; renewed June 12, 1943.
Inking ribbons and carbon paper. Royal Typewriter Company. 400,189; Feb. 16; Serial No. 456,109; published Dec. 8, 1942.

CLASS 12

Lime, Hydrated. Charles Warner Company. 170,222; renewed July 10, 1943.
Roofing, Mineral-surfaced roll. Barrett Company. 163,021; renewed Jan. 2, 1943.
Shingle, Asphalt. Lehon Company. 167,908; renewed May 8, 1943.
Wool, Mineral. United States Mineral Wool Company. 400,041; Feb. 16; Serial No. 441,887; published Sept. 8, 1942.

CLASS 13

Metal pipe nipples. Chicago Nipple Manufacturing Co. 169,805; renewed July 3, 1943.

CLASSES 13 AND 45

Valves and steam-packing supplies. Jenkins Bros. 22,335; re-renewed Jan. 10, 1943.

CLASS 14

Automobile body hardware. Ternstedt Manufacturing Company. 167,217; renewed Mar. 24, 1943.

CLASS 15

Lubricating compound, Metal cutting. Sulflo, Inc. 400,211; Feb. 16.
Oils and greases, Lubricating. Continental Oil Company. 166,155; renewed Mar. 27, 1943.

CLASS 16

Furniture and woodwork polish. P. Marsh. 400,136; Feb. 16; Serial No. 455,759; published Dec. 8, 1942.
Paints. Titanium Pigment Company. 168,764; renewed May 29, 1943.
Paints, artists' water colors, and artists' oil colors, Artists'. Art Crayon Co. 400,070; Feb. 16; Serial No. 453,356; published Dec. 8, 1942.
Paints, paint enamels, and varnishes. Vita-Var Corporation. 400,161; Feb. 16; Serial No. 455,936; published Dec. 8, 1942.
Paints, paint enamels, varnishes, etc. W. P. Fuller & Co. 400,063; Feb. 16; Serial No. 452,771; published Dec. 1, 1942.
Paints used as protective coatings, marine paints of all kinds, copper bottom paints, etc. C. A. Woolsey Paint & Color Co. 400,201; Feb. 16; Serial No. 456,355; published Dec. 8, 1942.
Preparation for polishing and cleaning automobiles, furniture, finished painted varnishes and enameled surfaces, etc. Gulco Chemical Co. 400,053; Feb. 16; Serial No. 447,736; published Dec. 8, 1942.

CLASS 17

Tobacco, Smoking. John Hudson Moore, Inc. 400,081; Feb. 16; Serial No. 454,373; published Dec. 15, 1942.

CLASS 19

Automobile bodies. Fisher Body Corporation. 170,152; renewed July 10, 1943.
Automobile body hardware. Ternstedt Manufacturing Company. 166,436; renewed Apr. 3, 1943.
Cycles. Humber Limited. 167,729; renewed May 8, 1943.
Trailers, Oil dispensing. V. M. Harman. 400,086; Feb. 16; Serial No. 454,634; published Dec. 8, 1942.

CLASS 21

Boxes installed on a ship, Shore connection. H. W. Fiedler. 400,107; Feb. 16; Serial No. 455,370; published Dec. 8, 1942.
Electric conduit fittings, exclusive of lighting fixtures. L. F. Brunner. 170,128; renewed July 10, 1943.
Radio equipment. Radio Frequency Laboratories, Inc. 169,478; renewed June 19, 1943.
Radio receiving apparatus, radio antenna apparatus, combination radio receiving and electric phonograph, etc., and parts of each of the above apparatus. Galvin Manufacturing Corporation. 400,049; Feb. 16; Serial No. 447,019; published Dec. 8, 1942.
Telephone and telephone systems and parts thereof. American Automatic Electric Sales Company. 400,135; Feb. 16; Serial No. 455,741; published Dec. 8, 1942.

CLASS 22

Airplane amusement devices, Stationary mechanically operated. L. U. Eyerly. 400,046; Feb. 16; Serial No. 446,320; published Dec. 8, 1942.
Amusement apparatus, Coin-controlled. Exhibit Supply Company. 400,221; Feb. 16.
Cylindrical coil spring motors for model airplanes. Rokwell Industries, Inc. 400,153; Feb. 16; Serial No. 455,874; published Decc. 8, 1942.
Fishing baits and lures. American Fork & Hoe Company. 400,128; Feb. 16; Serial No. 455,688; published Dec. 8, 1942.
Fishing baits and lures. American Fork & Hoe Company. 400,131; Feb. 16; Serial No. 455,689; published Dec. 8, 1942.
Game boards. Horn-Shafer Company. 400,159; Feb. 16; Serial No. 455,917; published Dec. 8, 1942.
Game, Indoor quoit. Originalities, Inc. 400,129; Feb. 16; Serial No. 456,429; published Dec. 8, 1942.
Toys and outfits for making stuffed animal toys, Stuffed animal. Heirloom Needlework Guild, Inc. 400,190; Feb. 16; Serial No. 456,121; published Dec. 8, 1942.

CLASS 23

Dies, Steel. A. Finkl & Sons Company. 400,088; Feb. 16; Serial No. 454,872; published Dec. 1, 1942.
Drilling and pumping equipment. Oil Country Specialties Mfg. Co. 400,087; Feb. 16; Serial No. 454,696; published Dec. 8, 1942.

Duplicating machines and parts thereof. A. B. Dick Company. 166,808; renewed Apr. 17, 1943.
Gears, pinions, mixer arms, etc. Kensington Steel Company. 400,059; Feb. 16; Serial No. 450,206; published Dec. 1, 1942.
Implements and hand tools, Hand agricultural. American Fork & Hoe Company. 400,188; Feb. 16; Serial No. 456,089; published Dec. 8, 1942.
Machines for emulsifying butter fats, milk solids, and water. United Dairy Equipment Company. 400,202; Feb. 16; Serial No. 456,500; published Dec. 15, 1942.
Marking devices. Acromark Corporation. 400,073; Feb. 16; Serial No. 453,767; published Dec. 8, 1942.
Rollers for printing presses, lithographic presses, hectograph masses, etc. Ideal Roller & Manufacturing Company. 170,010; renewed July 10, 1943.
Sanding or polishing machines. Sterling Tool Products Company. 400,055; Feb. 16; Serial No. 448,684; published Apr. 28, 1942.
Scoops, shovels, and steel chutes. H. B. Sackett Screen & Chute Company. 170,018; renewed July 10, 1943.
Tools with ink supply and ink distributing means including means for marking code insignia on defense materials. Winn-Billings Co. 400,072; Feb. 16; Serial No. 453,766; published Dec. 8, 1942.
Typewriters. Remington Rand Inc. 400,200; Feb. 16; Serial No. 456,325; published Dec. 8, 1942.
Work holders. J. T. Obecny. 400,090; Feb. 16; Serial No. 455,026; published Dec. 8, 1942.

CLASS 25

Automobile body hardware. Ternstedt Manufacturing Company. 167,214; renewed Apr. 24, 1943.

CLASS 26

Protractors, Aircraft propeller. Guardian Electric Manufacturing Co. 400,191; Feb. 16; Serial No. 456,144; published Dec. 8, 1942.
Radio equipment serving for giving a visual indication of the frequency spectrum. Panoramic Radio Corporation. 400,155; Feb. 16; Serial No. 455,890; published Dec. 8, 1942.

CLASS 27

Watch cases. Crescent Watch-Case Company. 22,382; re-renewed Jan. 31, 1943.
Watches. Crawford Watch Co. 400,215; Feb. 16.
Watches. Kingston Watch Company. 400,216; Feb. 16.

CLASS 28

Diamonds and precious stones. Trabert & Hoeffer Inc. 400,084; Feb. 16; Serial No. 454,440; published Sept. 29, 1942.
Flatware, Silver-plated. International Silver Company. 166,588; renewed Apr. 10, 1943.

CLASS 31

Filter papers, filter pulp, filter and extraction thimbles, etc. Carl Schleicher & Schuell Company. 400,074; Feb. 16; Serial No. 453,850; published Dec. 8, 1942.

CLASS 32

Cabinets, Filing. Art Steel Sales Corporation. 400,141; Feb. 16; Serial No. 455,778; published Dec. 8, 1942.
Furniture. Drexel Furniture Company. 400,078; Feb. 16; Serial No. 454,167; published Dec. 8, 1942.
Furniture, Novelty. M. L. Sturm. 400,097; Feb. 16; Serial No. 455,213; published Dec. 8, 1942.
Screens, Household partition. A. S. Haensel. 400,210; Feb. 16.
Trays, desks, file cabinets, etc., Posting. Visible Index Corp. 400,114; Feb. 16; Serial No. 455,547; published Dec. 8, 1942.

CLASS 33

Glass tableware. Anchor Hocking Glass Corporation. 400,145; Feb. 16; Serial No. 455,813; published Dec. 8, 1942.

CLASS 35

Adhesive tire-repair materials. B. F. Goodrich Company. 163,077; renewed Jan. 2, 1943.
Conveyor and elevator belting. Lee Rubber and Tire Corporation. 400,224; Feb. 16.
Tires and pneumatic inner tubes, Pneumatic. Montgomery Ward & Co. 400,109; Feb. 16; Serial No. 455,484; published Dec. 8, 1942.

CLASS 36

Desks and music stands, Combination foldable. H. & A. Selmer, Inc. 400,137; Feb. 16; Serial No. 455,766; published Dec. 8, 1942.
Phonograph records. A. E. Drake. 400,207; Feb. 16.

CLASS 37

File folders, guides. Amberg File and Index Company. 400,096; Feb. 16; Serial No. 455,169; published Dec. 8, 1942.
Paper, Bond. Lee Paper Company. 165,321; renewed Mar. 6, 1943.
Paper comprised of transparent sheeting laminated to paper, Cover. Dobeckmun Company. 400,038; Feb. 16; Serial No. 438,614; published Dec. 8, 1942.
Paper, Wrapping. McLaurin-Jones Co. 170,273; renewed July 10, 1943.
Pens and mechanical pencils, Fountain. Eversharp, Inc. 400,171; Feb. 16; Serial No. 456,016; published Dec. 8, 1942.
Portfolios made of paper. Eastern Tablet Corporation. 400,212; Feb. 16.

CLASS 38

Articles published in a trade magazine. Bramson Publishing Company. 400,193; Feb. 16; Serial No. 456,174; published Dec. 8, 1942.
Bibles. A. J. Holman Company. 400,094; Feb. 16; Serial No. 455,141; published Dec. 1, 1942.
Comic strip or panel. Associated Press. 400,199; Feb. 16; Serial No. 456,282; published Dec. 8, 1942.
Magazine. Dell Publishing Company. 400,220; Feb. 16.
Magazine, Musical. Musical Courier Company. 162,324; renewed Dec. 12, 1942.
Newspaper or magazine section or department. American Weekly, Inc. 400,195–6; Feb. 16; Serial Nos. 456,210–11; published Dec. 8, 1942.
Periodical. Hearst Magazines Inc. 400,039; Feb. 16; Serial No. 439,966; published Dec. 1, 1942.
Photographs and photographic prints. Jack Rabbit Company. 400,044; Feb. 16; Serial No. 444,683; published Jan 6, 1942.
Publication. Song Lyrics, Inc. 400,222; Feb. 16.
Stamps, Trading. Green Arrow Stamp Co. 400,037; Feb. 16; Serial No. 436,013; published Dec. 8, 1942.
Title of its daily publication. Press-Union Publishing Company. 167,593; renewed May 1, 1943.

CLASS 39

Apparel for boys and girls, Wearing. Ben Fligel Co. Inc. 400,133; Feb. 16; Serial No. 455,725; published Dec. 8, 1942.
Clothing, Children's ready-to-wear. J. C. Penney Company. 166,691; renewed Apr. 10, 1943.
Clothing, Men's and women's. L. Tabak. 400,075; Feb. 16; Serial No. 453,994; published Dec. 8, 1942.
Clothing, Men's outer. Cambridge Tailoring Company. 400,068; Feb. 16; Serial No. 453,152; published Dec. 8, 1942.
Gloves and work mittens, Work. Indianapolis Glove Co. 400,042; Feb. 16; Serial No. 442,171; published Sept. 16, 1941.
Handkerchiefs and scarfs, Ladies' and men's. Franshaw, Inc. 400,150; Feb. 16; Serial No. 455,865; published Dec. 8, 1942.
Hats, Women's and misses'. John Frederics, Inc. 400,151; Feb. 16; Serial No. 455,866; published Dec. 8, 1942.
Hosiery. Chas. Chipman's Sons Co. Inc. 166,630; renewed Apr. 10, 1943.
Hosiery. Norristown Hosiery Mills. 167,826; renewed May 8, 1943.
Hosiery. Powell Knitting Company. 164,748; renewed Feb. 27, 1943.
Hosiery. Powell Knitting Company. 165,604; renewed Feb. 27, 1943.
Hosiery. Powell Knitting Company. 168,168; renewed May 15, 1943.
Hosiery. Powell Knitting Company. 168,236; renewed May 15, 1943.
Hosiery. Wm. G. Leininger Knitting Co. 400,192; Feb. 16; Serial No. 456,151; published Dec. 8, 1942.
Shoes, Women's. G. Edwin Smith Shoe Company. 400,148; Feb. 16; Serial No. 455,853; published Dec. 8, 1942.
Slacks, playsuits, dresses, etc., for women, misses, and girls. L. Tabak. 400,111; Feb. 16; Serial No. 455,522; published Dec. 1, 1942.
Slips, Ladies' and misses'. Stylecraft Lingerie, Inc. 400,104; Feb. 16; Serial No. 455,353; published Dec. 8, 1942.
Suits and coats, Men's summer weight. Friedman-Marks Clothing Company. 400,045; Feb. 16; Serial No. 445,932; published Dec. 8, 1942.
Suits and overcoats. Levy Bros. & Adler Rochester, Inc. 400,051; Feb. 16; Serial No. 447,291; published Dec. 16, 1941.
Sweaters, Women's and girls'. Renart Sportswear Corp. 400,165; Feb. 16; Serial No. 455,956; published Dec. 8, 1942.
Underwear for men and boys, Knitted fabric. Standard Knitting Mills. 166,687; renewed Apr. 10, 1943.
Underwear for men and boys, Knitted. Standard Knitting Mills. 166,709; renewed Apr. 10, 1943.
Underwear, nightgowns, pyjamas, etc. Vanity Fair Silk Mills. 166,728; renewed Apr. 10, 1943.

CLASS 40

Fabric for use in pleating draperies and curtains, Narrow. Consolidated Trimming Corporation. 400,093; Feb. 16; Serial No. 455,132; published Dec. 8, 1942.
Hat pins. Schein Brothers, Inc. 400,116; Feb. 16; Serial No. 455,601; published Dec. 8, 1942.
Pins, T Pins, and bank pins, Card. Guild Products Corporation. 168,903; renewed May 29, 1943.

CLASS 42

Cloths and stuffs of wool, worsted, or hair. Martin Sons and Company Limited. 158,014; renewed Aug. 22, 1942.
Cotton-duck paper felts, oil-press cloth, cider-press cloth, etc. Wm. E. Hooper & Sons Co. 166,061; renewed Mar. 27, 1943.
Cotton piece goods. Consolidated Textile Co. 400,132; Feb. 16; Serial No. 455,722; published Dec. 8, 1942.
Cotton piece goods. Consolidated Textile Co. 400,217–19; Feb. 16.
Cotton piece goods. J. C. Penney Company. 168,735; renewed May 29, 1943.
Covers, bath mats and rugs, Toilet lid. M. Newman. 400,076; Feb. 16; Serial No. 454,101; published Dec. 8, 1942.
Fabrics in the piece. Pondel Fabrics, Inc. 400,177–9; Feb. 16; Serial Nos. 456,034–6; published Dec. 8, 1942.
Fabrics in the piece. Pondel Fabrics, Inc. 400,180–2; Feb. 16; Serial Nos. 456,038–40; published Dec. 8, 1942.
Fabrics in the piece. Pondel Fabrics, Inc. 400,183; Feb. 16; Serial No. 456,043; published Dec. 8, 1942.
Fabrics in the piece. Pondel Fabrics, Inc. 400,184; Feb. 16; Serial No. 456,046; published Dec. 8, 1942.
Fabrics in the piece. Pondel Fabrics, Inc. 400,185; Feb. 16; Serial No. 456,048; published Dec. 8, 1942.
Fabrics in the piece, Pile. Security Mills, Inc. 400,134; Feb. 16; Serial No. 455,739; published Nov. 24, 1942.
Ginghams in the piece. Henry Glass & Co. 170,230; renewed July 10, 1943.
Piece goods. Bernstein Bros. 400,205; Feb. 16.
Piece goods. Bianchini Ferier, Inc. 400,115; Feb. 16; Serial No. 455,584; published Dec. 8, 1942.
Piece goods. Foreman Fabrics, Inc. 400,166; Feb. 16; Serial No. 455,974; published Dec. 8, 1942.
Piece goods. Foreman Fabrics, Inc. 400,167; Feb. 16; Serial No. 455,976; published Dec. 8, 1942.
Piece goods. O. Hayman. 400,089; Feb. 16; Serial No. 455,004; published Dec. 8, 1942.
Piece goods. Hego Fabrics, Inc. 400,208; Feb. 16.
Rayon piece goods and piece goods. Eastman Kodak Company. 400,048; Feb. 16; Serial No. 446,777; published Dec. 8, 1942.
Rayon piece goods and piece goods. Eastman Kodak Comany. 400,062; Feb. 16; Serial No. 452,523; published Dec. 8, 1942.
Rugs. Marshall Field & Company. 400,102; Feb. 16; Serial No. 455,331; published Dec. 8, 1942.
Rugs. Marshall Feld & Company. 400,103; Feb. 16; Serial No. 455,333; published Dec. 8, 1942.
Rugs and floor mats. Deltox Rug Company. 400,105–6; Feb. 16; Serial Nos. 455,366–7; published Dec. 8, 1942.
Textile fabrics in the piece. Shirley Fabrics Corporation. 400,117; Feb. 16; Serial No. 455,614; published Nov. 24, 1942.
Wool, cotton, rayon, and silk piece goods. R. P. Hoffman. 400,095; Feb. 16; Serial No. 455,161; published Dec. 8, 1942.
Woolen and worsted fabrics. Philip Shlansky & Bro., Inc. 400,187; Feb. 16; Serial No. 456,085; published Dec. 8, 1942.

CLASS 43

Thread and yarn of artificial origin. North American Rayon Corporation. 400,176; Feb. 16; Serial No. 456,029; published Dec. 1, 1942.
Yarn, Cotton. Royal Society, Inc. 400,050; Feb. 16; Serial No. 447,271; published Dec. 1, 1942.
Yarn, Pompon. Vogue Needlecraft Company. 400,043; Feb. 16; Serial No. 442,613; published Nov. 24, 1942.
Yarns, Art needlework. Bernhard Ulmann Co. Inc. 400,113; Feb. 16; Serial No. 455,546; published Nov. 17, 1942.
Yarns, Cotton. United States Rubber Company. 400,118; Feb. 16; Serial No. 455,636; published Nov. 17, 1942.

CLASS 44

Insulated containers adapted to hold nursing bottles and heat retaining bottle holders, Sets of. L. A. Lockwood. 400,082; Feb. 16; Serial No. 454,424; published Dec. 8, 1942.
Nursing bottles. Armstrong Cork Company. 400,209; Feb. 16.
Sanitary napkins. Gamble Stores, Incorporated. 400,195; Feb. 16; Serial No. 456,213; published Dec. 8, 1942.
Teeth, Artificial. Universal Dental Company. 400,186; Feb. 16; Serial No. 456,060; published Dec. 8, 1942.
Thumb-sucking preventative devices. F. W. Cordes. 400,158; Feb. 16; Serial No. 455,907; published Dec. 8, 1942.

CLASS 45

Beverage, Maltless. Specialty Soda Water Bottling Company. 168,971; renewed May 29, 1943.
Grape juice, gingerale, sarsaparilla, etc. H. Kellogg & Sons. 162,092; renewed Dec. 5, 1942.

CLASS 46

Beverage consisting of milk supplemented with powdered caro, cocoa, and other ingredients. Galen Company. 400,036; Feb. 16; Serial No. 434,686; published Oct. 21, 1941.
Beverage, Tonic food. S. S. Lerner. 400,052; Feb. 16; Serial No. 447,663; published Dec. 8, 1942.
Butter and cheese. Luis Magnasco & Cia. Ltda. Mantequeria Modelo Sociedad Anon. 400,204; Feb. 16.
Cakes, wafers, crackers, etc. Loose Wiles Biscuit Company. 163,596; renewed Jan. 23, 1943.
Candies. Metro Chocolate Co. Inc. 400,146; Feb. 16; Serial No. 455,825; published Dec. 8, 1942.
Candy. McDowell, Pyle & Co. 169,248; renewed June 12, 1943.
Canned corn. Reedsburg Foods Corporation. 400,152; Feb. 16; Serial No. 455,873; published Dec. 8, 1942.
Canned vegetables. Thrift Packing Company. 400,203; Feb. 16.
Caramels, Nut. P. G. Gerrish. 165,781; renewed Mar. 20, 1943.
Chocolate powder preparation. D. Ghirardelli Co. 400,206; Feb. 16.
Eggs. Swift and Company. 165,125; renewed Mar. 6, 1943.
Flour, Wheat. Northwestern Consolidated Milling Company. 167,627; renewed May 1, 1943.
Meat products. Hygrade Provision Co. 170,210; renewed July 10, 1943.
Oranges, grapefruit, and tangerines, Fresh. Lake Placid Packing Company. 400,213; Feb. 16.
Pork and beef products. G. Schluderberg. 163,395; renewed Jan. 9, 1943.
Preserves, jellies, fruit-butters, etc. Van Lill Preserving Company. 23,254; re-renewed June 27, 1943.
Shortening compound. Cudahy Packing Company. 168,335; renewed May 22, 1943.
Soups, soup pastes, soup powder, etc. Bickiepegs Limited. 400,064; Feb. 16; Serial No. 452,848; published Aug. 18, 1942.
Spaghetti, vermicelli, macaroni, etc. West Coast Macaroni Mfg. Co. 400,069; Feb. 16; Serial No. 453,349; published Dec. 8, 1942.
Tea. Continental Coffee Company. 400,054; Feb. 16; Serial No. 447,906; published Dec. 8, 1942.

CLASS 49

Liqueurs, Fruit. Bohemian Distributing Company. 400,142; Feb. 16; Serial No. 455,782; published Dec. 8, 1942.
Rum. M. E. Hulse. 400,214; Feb. 16.
Vodka. Bohemian Distributing Company. 400,143; Feb. 16; Serial No. 455,783; published Dec. 8, 1942.
Whiskey. Tom Walker & Company. 400,139–40; Feb. 16; Serial Nos. 455,774–5; published Dec. 1, 1942.
Whiskey, Frank L. Wight Distilling Company. 400,223; Feb. 16.
Whisky. Distillers Company. 22,771; re-renewed Apr. 11, 1943.

CLASS 50

Fabrics, Water repellent and waterproof. Sea Island Mills, Inc. 400,060; Feb. 16; Serial No. 450,978; published Dec. 8, 1942.
Treads, Stair. Perfect Manufacturing Co. 400,091; Feb. 16; Serial No. 455,029; published Dec. 8, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adam, Frank, Electric Company. (See Adam, F. B., and Stieglitz, assignors.)
Adam, Frederick B., St. Louis County, and H. M. Stieglitz, assignors to Frank Adam Electric Company, St. Louis, Mo. Circuit interrupting and protecting device. Re. 22,266; Feb. 16.
Aspinwall, Robert B., Hazel Park, Mich., and T. B. Tyler, Miami Beach, Fla., assignors to The Monopower Corporation, Detroit, Mich. Torque conveying and converting apparatus. Re. 22,267; Feb. 16.
Bannon, Lewis A., and H. G. Schneider, Roselle, N. J., assignors to Standard Oil Development Company. Separation of isobutylene from hydrocarbon mixtures. Re. 22,268; Feb. 16.
Boeing Aircraft Company. (See Price, Nathan C., assignor.)
Harvey, Jacquelin E., Jr., Washington, D. C., assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of wood impregnant from high temperature coal tar fractions. Re. 22,269; Feb. 16.
Independent Aluminum Corporation. (See Loevenstein, Hirsch, assignor.)
Loevenstein, Hirsch, assignor, by mesne assignments, of one-half to Independent Aluminum Corporation, New York, N. Y. Manufacture of aluminum. Re. 22,270; Feb. 16.
Lundvall, John S., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Convertible bulkhead for refrigerator cars. Re. 22,271; Feb. 16.
Monopower Corporation, The. (See Aspinwall, R. B., and Tyler, assignors.)
Price, Nathan C., Hollywood, Calif., assignor, by mesne assignments, to Boeing Aircraft Company, Seattle, Wash. Pressure control system for aircraft cabins. Re. 22,272; Feb. 16.
Schneider, Helmuth G. (See Bannon, L. A., and Schneider.)
Southern Wood Preserving Company. (See Harvey, Jacquelin E., Jr., assignor.)
Standard Oil Development Company. (See Bannon, L. A., and Schneider, assignors.)
Stieglitz, Henry M. (See Adam, F. B., and Stieglitz.)
Tyler, Tracy B. (See Aspinwall, R. B., and Tyler.)
Union Asbestos & Rubber Company. (See Lundvall, John S., assignor.)

LIST OF DESIGN PATENTEES

Abt, John H., assignor to Deering Milliken & Co., Inc., New York, N. Y. Textile fabric. 135,042; Feb. 16.
Anderson, David E., Los Angeles, Calif. Cabinet sink. 135,024; Feb. 16.
Baron & Arnof, Inc. (See Misley, John J., assignor.)
Barker, Harvey L. (See Pearl, Henry J., assignor.)
Bigler, Oscar A., Chicago, Ill., and M. S. Larrison, Frankford, Pa., assignors to United States Gypsum Company, Chicago, Ill. Roofing shingle. 135,045; Feb. 16.
Blair, Robert F., Guttenberg, N. J. Tobacco pipe. 135,046; Feb. 16.
Braun, Jerome. (See Corwin, S., and Braun.)
Breskin, Mortimer M., New York, N. Y. Dress or similar article. 135,043; Feb. 16.
Buller, John B., St. Joseph, Mo. Handle for a safety razor. 135,044; Feb. 16.
Carson, Gretyl E., Chicago, Ill. Ring cigarette holder. 135,032; Feb. 16.
Corwin, Sydney S., and J. Braun, New York, N. Y. Picture frame or the like. 135,034; Feb. 16.
Deering Milliken & Co. (See Abt, John H., assignor.)
Flaster, Alfred A., New York, N. Y. Combined bottle and display holder. 135,028; Feb. 16.
Gershuny, Abe, New York, N. Y. Dress. 135,048; Feb. 16.
Gershuny, Abe, New York, N. Y. Dress. 135,047; Feb. 16.
Goldfrank, John, New York, N. Y. Embroidered trimming. 135,049; Feb. 16.
Gotsch, Walter M., Company. (See Kittles, William M., assignor.)
Griffies, Walter, Chicago, Ill. Sharpener for razor blades. 135,029; Feb. 16.
Harshman, Arthur L., assignor to Indiana Glass Company, Dunkirk, Ind. Dish or similar article. 135,030; Feb. 16.
Hickok Manufacturing Company. (See Ricketts, Carl E., assignor.)
Hill, C. V., & Company. (See Hoffman, Cyrus F., assignor.)
Hirschfield, Mortimer H., Great Neck, assignor to Tone Laboratories, Inc., New York, N. Y. Powder bellows. 135,026; Feb. 16.
Hoffman, Cyrus F., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated display cabinet. 135,025; Feb. 16.
Humphrey, Don B., Great Neck, N. Y., assignor to United States Gypsum Company, Chicago, Ill. Roofing shingle. 135,035; Feb. 16.
Indiana Glass Company. (See Harshman, Arthur L., assignor.)
Jones, Howard B., Evanston, Ill Terminal block for electrical connections. 135,033; Feb. 16.
Kittles, William M., assignor to Walter M. Gotsch Company, Chicago, Ill. House coat. 135,036; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,050; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,051; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,052; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,053; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,054; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,055; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,056; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,057; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,058; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,059; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,060; Feb. 16.
Lampl, Walter, New York, N. Y. Charm or similar article. 135,061; Feb. 16.
Larrison, Millard S. (See Bigler, O. A., and Larrison.)
Merton, Percy, Hillsdale, N. J. Emblematic poster. 135,062; Feb. 16.
Misley, John J., Yonkers, assignor to Baron & Arnof, Inc., New York, N. Y. Savings bank. 135,063; Feb. 16.
Morford, Henry S., Hempstead, assignor to J. H. Thorp & Co., Inc., New York, N. Y. Textile fabric or similar article of manufacture. 135,064; Feb. 16.
Munson, Ralph H., St. Paul, Minn. Combined camera and grip holder therefor. 135,037; Feb. 16.
Oppenheim, Ruth C., New York, N. Y. Table scarf or similar article. 135,065; Feb. 16.
Parnis, Mollie, New York, N. Y. Dress. 135,066; Feb. 16.
Pearl, Henry J., assignor of one-half to H. L. Barker, Los Angeles, Calif. Dress. 135,031; Feb. 16.
Pereira, Belmiro, New York, N. Y. Ring. 135,038; Feb. 16.
Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,071; Feb. 16.
Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,072; Feb. 16.
Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,073; Feb. 16.
Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,074; Feb. 16.
Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,075; Feb. 16.
Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,076; Feb. 16.

Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,077; Feb. 16.

Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,078; Feb. 16.

Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,079; Feb. 16.

Ricketts, Carl E., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belting or the like for personal wear. 135,080; Feb. 16.

Rothchild, Aaron, Flushing, N. Y. Hat. 135,067; Feb. 16.

Rowland, Robert W., Newark, N. J. Ventilator or the like. 135,039; Feb. 16.

Rowland, Robert W., Newark, N. J. Ventilator or the like. 135,040; Feb. 16.

Smith, Richard F., Savannah, assignor to Welding Tools & Engineering Corp., Atlanta, Ga. Jack clamp. 135,068; Feb. 16.

Somersett, Lois B., Oakland, Calif. Toy figure. 135,069; Feb. 16.

Stahl, Harold H., New York, N. Y. Dress. 135,070; Feb. 16.

Tashman, William, Chicago, Ill. Handbag. 135,027; Feb. 16.

Thorp, J. H., & Co. (See Morford, Henry S., assignor.)

Tone Laboratories, Inc. (See Hirschfield, Mortimer H. assignor.)

United States Gypsum Company. (See Bigler, O. A., and Larrison, assignors.)

United States Gypsum Company. (See Humphrey, Don B., assignor.)

Welding Tools & Engineering Corp. (See Smith, Richard F., assignor.)

White, Otto R., New York, N. Y. Finger rest. 135,041; Feb. 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories. (See Tabern, Donalee L., assignor.)
Abgarian, Aram. (See Simpson, H. W., and Abgarian.)
Ace Engineering Co. (See Ravnsbeck, Fred, assignor.)
Adam, Frank, Electric Company. (See Adam, Frederick B., assignor.)
Adam, Frederick B., St. Louis County, assignor to Frank Adam Electric Company, St. Louis, Mo. Enclosed switch. 2,310,918; Feb. 16.
Adam, Frederick B., St. Louis County, assignor to Frank Adam Electric Company, St. Louis, Mo. Bus duct. 2,310,919; Feb. 16.
Addis, Rexford H., Dearborn, Mich. Rivet gauge. 2,311,323; Feb. 16.
Adrian, Manuel, San Jose, Calif. Conveyer. 2,310,920; Feb. 16.
Ahern, Edward T., New Haven, Conn. Cleaning process for urinal metal traps. 2,311,196; Feb. 16.
Ahern, Edward T., New Haven, Conn. Cleaning process for urinal traps located below the floor level. 2,311,197; Feb. 16.
Aircraft Screw Products Company. (See Caminez, Harold, assignor.)
Aktiebolaget Enköpings Verkstäder. (See Styrén, Nils O. H., assignor.)
Aktiebolaget Gerh. Archns Mekaniska Verkstad. (See Örström, Gustaf, assignor.)
Algin Corporation of America. (See Le Gloahec, Victor C. E., assignor.)
Alien Property Custodian. (See Buschbeck, W., and Zumbusch.)
Alien Property Custodian. (See Cito, Camillo.)
Alien Property Custodian. (See Dornier, Claude.)
Alien Property Custodian. (See Gendriess, Erwin.)
Alien Property Custodian. (See Gerhard, Ernst.)
Alien Property Custodian. (See Paschke, Erich.)
Alien Property Custodian. (See Roosenstein, Hans O.)
Alien Property Custodian. (See Rouat, Roger.)
Alien Property Custodian. (See Sandholt, Hans.)
Alien Property Custodian. (See Schierenbeck, Julius.)
Alink, Roelof J. H., J. H. de Boer, K. H. Klaassens, and C. F. Veenemans, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, trustee, Hartford, Conn. Photographic material and producing same. 2,311,016; Feb. 16.
Allis-Chalmers Manufacturing Company. (See Ring, J. J., and Nichols, assignors.)
Allison Company, The. (See Allison, Hugh V., assignor.)
Allison, Hugh V., Fairfield, assignor to The Allison Company, Bridgeport, Conn. Manufacturing of hard rubber articles. 2,311,605; Feb. 16.
Allmanna Svenska Elektriska Aktiebolaget. (See Ericson, Nils, assignor.)
Allyn, William G. (See Allyn, William N. and W. G.)
Allyn, William N., Skaneateles, N. Y. Ophthalmoscope. 2,311,502; Feb. 16.
Allyn, William N. and W. G., Skaneateles, N. Y. Ophthalmoscope. 2,311,503; Feb. 16.
American Anode Inc. (See Hansen, Merrill E., assignor.)
American Anode Inc. (See Thomas, Robert E., assignor.)
American Can Company. (See Stewart, James A., assignor.))
American Can Company. (See Woolford, Custis S., assignor.)
American Cyanamid Company. (See Booth, Robert B., assignor.)
American Cyanamid Company. (See Bradley, Theodore F., assignor.)
American Cyanamid Company. (See Ham, Garnet P., assignor.)
American Cyanamid Company. (See Jayne, David W., Jr., assignor.)
American Cyanamid Company. (See Johnston, William B., assignor.)
American Cyanamid Company. (See Kropa, Edward L., assignor.)
American Cyanamid Company. (See Laury, Napoleon A., assignor.)
American Cyanamid Company. (See Roblin, Richard O., Jr., assignor.)
American Cyanamid Company. (See Roblin, R. O., Jr., and Hechenbleikner, assignors.)
American District Telegraph Company, The. (See Farmer, P. M., Evans, and Spamer, assignors.)
American District Telegraph Company. (See Muehter, Manfred W., assignor.)
American Gas Furnace Company. (See Farwick, Theodore, assignor.)
American Hard Rubber Company. (See Bohn, Samuel, assignor.)
American Liquid Gas Corporation. (See Smith, Harold W., assignor.)
American Locomotive Company. (See Shaw, Wilbur A., assignor.)
American Lurgi Corporation. (See Barwasser, J., and Thumm, assignors.)
American Lurgi Corporation. (See Jaenicke, J., Knoop, Miedel, and Schweitzer, assignors.)
American Machine & Foundry Company. (See Rundell, Rupert E., assignor.)
American Molded Products Co. (See Heiss, Harvey, assignor.)
American Molded Products Co. (See Koci, Jerry C., assignor.)
American Optical Company. (See Bardwell, R. F., and Smith, assignors.)
American Rolling Mill Company, The. (See Gordon, R. H., and Tooke, assignors.)
American Steel Foundries. (See Oelkers, Alfred H., assignor.)
Amsler, Charles S., San Francisco, Calif. Window ventilator. 2,311,324; Feb. 16.
Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Belt clasp. 2,311,429; Feb. 16.
Anderson, Gustaf W., North Quincy, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Envelope machine. 2,311,017; Feb. 16.
Anderson, William S., assignor to Shoe Press Corporation, Philadelphia, Pa. Shoe press. 2,311,325; Feb. 16.
Andreasson, Rudolf W., Detroit, Mich. Jar closure. 2,311,198; Feb. 16.
Andree, John O., Wichita Falls, Tex. Pump jack. 2,311,504; Feb. 16.
Apex Electrical Manufacturing Company, The. (See Racklyeft, John W., assignor.)
Archibald, Francis M., Elizabeth, N. J., and C. A. Harris, New York, N. Y., assignors to Standard Oil Development Company. Copper corrosion inhibitor. 2,311,505; Feb. 16.
Arey, Alton L., East Cleveland, Ohio. Valve structure. 2,311,506; Feb. 16.
Arthur, Paul, Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Shrinkproofing process. 2,311,507; Feb. 16.
Ash, Charles S., Milford, Mich. Dual wheel vehicle. 2,310,921; Feb. 16.
Ashley Machine Company, The. (See Campbell, Harold C., assignor.)
Assmann, Peter. (See Staeger, R., Assmann, and Ehrmann.)
Associated Electric Laboratories, Inc. (See Crocker, Thomas F., assignor.)
Astley, William F., assignor to Union Asbestos & Rubber Company, Cicero, Ill. Asbestos insulating unit or yarn. 2,311,356; Feb. 16.
Åstradsson, Per A., assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Method and apparatus for production of smoke or fog. 2,311,199; Feb. 16.
Atkin, Lawrence. (See Schultz, A. S., Atkin, and Frey.)
Atwell, Harold V., Beacon, assignor to Process Management Company, Inc., New York, N. Y. Conversion of hydrocarbons. 2,311,357; Feb. 16.
Auer, László, East Orange, N. J. Manufacture of modified rosin. 2,311,200; Feb. 16.
Auer, László, South Orange, N. J. Treating rosin. 2,311,508; Feb. 16.
Auer, László, South Orange, N. J. Rosin treatment. 2,311,509; Feb. 16.
Auer, László, South Orange, N. J. Rosin treatment method. 2,311,510; Feb. 16.
Auer, László, South Orange, N. J. Treatment of rosin. 2,311,511; Feb. 16.
Autogiro Company of America. (See Pitcairn, Harold F., assignor.)
Automatic Appliance Corporation. (See Van Horn, O. F., Kinney and McGlohn, assignors.)
Automatic Signal Corporation. (See Barker, John L., assignor.)
Aviation Corporation, The. (See Wiegman, Clarence H., assignor.)
Babson Bros. Co. (See Thomas, Chester A., assignor.)
Backstrom, Sigurd M., and P. P. Strandberg, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,311,512; Feb. 16.

Backus, Thomas, assignor to Fuller Manufacturing Company, Kalamazoo, Mich. Transmission reverse gearing. 2,311,201; Feb. 16.
Bacon, Ross M. (See Groene, W. F., and Bacon.)
Bahnson, Agnew H., Jr., assignor to The Bahnson Company, Winston-Salem, N. C. Atomizer. 2,311,018; Feb. 16.
Bahnson Company, The. (See Bahnson, Agnew H., Jr., assignor.)
Baily, Robert W., Narberth, Pa. Apparaus and method for molding concrete. 2,311,358; Feb. 16.
Baldwin Locomotive Works, The. (See Stamm, John J., assignor.)
Bannister, Clyde E., Bartlesville, Okla. Centrifugal separator. 2,311,606; Feb. 16.
Barber-Colman Company. (See Dewey, Ritchie P., assignor.)
Barclay Manufacturing Co. Inc. (See Feder, Harry, assignor.)
Bardwell, Ralph F., Southbridge, and J. H. Smith, Sturbridge, assignors to American Optical Company, Southbridge, Mass. Making lenses. 2,310,925; Feb. 16.
Barker, Harvey L. (See Pearl, Henry J., assignor.)
Barker, John L., Norwalk, assignor to Automatic Signal Corporation, East Norwalk, Conn. Control system. 2,311,359; Feb. 16.
Barker, John L., Norwalk, assignor to Automatic Signal Corporation, East Norwalk, Conn. Control system. 2,311,360; Feb. 16.
Barron, Joseph M., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Conversion of hydrocarbon oils. 2,310,922; Feb. 16.
Barry-Wehmiller Machinery Company. (See Herold, James L., assignor.)
Barwasser, Josef, Frankfort-on-the-Main, and W. Thumm, Oberursel, near Frankfort-on-the-Main, Germany, assignors to American Lurgi Corporation, New York, N. Y. Regeneration of an absorption liquid consisting of basic aluminium sulphate for the recovery of sulphur dioxide. 2,311,202; Feb. 16.
Bascom, Roger C., Merrick, assignor to Rubatex Products, Inc., New York, N. Y. Vulcanization. 2,310,926; Feb. 16.
Bassist, Ellis. (See Toland, W. C., and Bassist.)
Bay, Thomas J., United States Navy. Condenser tube protector. 2,310,927; Feb. 16.
Bayne, Richard A., Detroit, Mich. Combination fuse and circuit breaker. 2,311,019; Feb. 16.
Beamer, Clayton M. (See Kerns, W. J., and Beamer.)
Bean, Charles L., San Jose, Calif. Shaft bearing. 2,310,923; Feb. 16.
Beattie, John P. (See Hurley, J. R., and Beattie.)
Becker, Joseph, assignor to Koppers Company, Pittsburgh, Pa. Coke oven apparatus. 2,310,924; Feb. 16.
Beech Aircraft Corporation. (See Duffy, David H. assignor.)
Behrle, Ruth M., Washington, D. C. Adjustable drapery bracket. 2,310,928; Feb. 16.
Beil, Forrest F., asignor to Curtis Company Incorporated, Clinton, Iowa. Panel construction. 2,311,361; Feb. 16.
Belar, Herbert, Philadelphia, Pa., assignor to Radio Corporation of America. Sound reproducing apparatus. 2,311,362; Feb. 16.
Bell, Maurice E., Wilkinsburg, and L. J. Berberich, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Applying luminescent coating. 2,311,513; Feb. 16.
Bendix Aviation Corporation. (See Kearney, Daniel P., assignor.)
Bendix Aviation Corporation. (See Mock, F. C., and Partington, assignors.)
Bendix Aviation Corporation. (See Nette, H. C., and Taylor, assignors.)
Bennett, David E., Jr., and S. S. Fierke, assignors to Eastman Kodak Company, Rochester, N. Y. Dispersing coloring materials in water swellable colloids. 2,311,020; Feb. 16.
Beno, Norman J., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Scratch resistance testing machine. 2,311,430; Feb. 16.
Berberich, Leo J. (See Bell, M. E., and Berberich.)
Beresky, John, Brooklyn, N. Y. Gun sighting means. 2,310,929; Feb. 16.
Bergstrom, Harold A., assignor to The Container Company, Van Wert, Ohio. Method and apparatus for treating fibrous containers. 2,311,309; Feb. 16.
Berry, Russell G., Maplewood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Safety switch for internal combustion engines. 2,311,179; Feb. 16.
Bertholf, William M. (See Frantz, P. M., and Bertholf.)
Bevier, Theodore S., Alhambra, Calif. Tape dispensing apparatus. 2,311,363; Feb. 16.
Bickel, Clifford A., assignor to The Monarch Machine Tool Co., Sidney, Ohio. Taper attachment construction. 2,311,203; Feb. 16.
Birkin, Dimitri, Philadelphia, Pa. Fastening means. 2,311,326; Feb. 16.
Bishop, Ellis G., executor, et al. (See Lipman, Michael.)
Bishop, Nathaniel, Fairfield, Conn. Crystal stabilized frequency modulation system. 2,311,026; Feb. 16.
Blackhawk Mfg. Co. (See Pfauser, Edward M., assignor.)
Blanchett, Luther E., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Leveling device. 2,310,930; Feb. 16.
Bliss, E. W., Company. (See Krueger, Frank, assignor.)
Bliss, E. W., Company. (See Williamson, Larkin R., assignor.)
Bloomer Bros. Company. (See Inman, William H., assignor.)
Blumlein, Alan D., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Multiplex receiving system. 2,311,021; Feb. 16.
Board of Trustees of College of Physicians and Surgeons. (See True, Harry A., assignor.)
Boden, Ernest G., assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing seal. 2,311,287; Feb. 16.
Bodman, John W., Winchester, and F. F. Pease, Squantum, assignors to Lever Brothers Company, Cambridge, Mass. Partitioned soap and forming the same. 2,310,931; Feb. 16.
Boettcher, Justice G. (See Shugart, R. B., and Boettcher.)
Bogart, Marcel J. P., Teaneck, N. J., and J. S. F. Carter, Oceanside, assignors to The Lummus Company, New York, N. Y. Distillation. 2,311,180; Feb. 16.
Bohn, Samuel, Clifton, N. J., assignor to American Hard Rubber Company, New York, N. Y. Refrigerator display case. 2,311,182; Feb. 16.
Booth, Robert B., Springfield, Conn., assignor to American Cyanamid Company, New York, N. Y. Increasing the plasticity of Portland cement mixtures. 2,311,288; Feb. 16.
Booth, Robert B., Springfield, Conn., assignor to American Cyanamid Company, New York, N. Y. Increasing the plasticity of Portland cement mixtures. 2,311,289; Feb. 16.
Booth, Robert B., Springfield, Conn., assignor to American Cyanamid Company, New York, N. Y. Increasing the plasticity of Portland cement mixtures. 2,311,290; Feb. 16.
Bordon Mfg. Co. (See Bourque, Philip, assignor.)
Borg-Warner Corporation. (See Carnagua, Harold E., assignor.)
Bornemann, William. (See Tuttle, C. M., and Bornemann.)
Bouma, Wikke, Glendale, Calif. Film viewer. 2,311,204; Feb. 16.
Borque, Philip, assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,311,022; Feb. 16.
Bowen, Kenneth D., assignor to The Dow Chemical Company, Midland, Mich. Rotameter construction. 2,311,181; Feb. 16.
Bowers, Donald E., Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of tin naphthenate. 2,311,310; Feb. 16.
Bradley, Theodore F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerization of diallyl esters and products thereof. 2,311,327; Feb. 16.
Bramblett, Ora, Springfield, Colo. Portable shelter for motor vehicles. 2,311,514; Feb. 16.
Brandwein, A., & Company. (See Kelly, Dwight N., assignor.)
Brennan, Joseph B., and L. Marsh, Euclid, Ohio, said Marsh assignor to said Brennan. Electrolytic device. 2,310,932; Feb. 16.
Bridge, Herbert C., Somerset, Mass. Collapsible structure. 2,311,515; Feb. 16.
Broderick, Frank W. (See Sunderhauf, F. A., and Broderick.)
Brooks, Benjamin T., Old Greenwich, Conn., assignor to Standard Alcohol Company. Chlorohydrin of unsaturated alcohol. 2,311,023; Feb. 16.
Brower, Paul V., Edwardsville, Ill., and L. Love, Jackson Heights, N. Y., assignors to Shell Development Company, San Francisco, Calif. Refining light hydrocarbon distillates. 2,311,328; Feb. 16.
Brown, Hugh S., Harvey, and G. E. Thomson, Chicago, assignors to The Buda Company, Harvey, Ill. Push car. 2,311,205; Feb. 16.
Brown, Lemual G. (See Dubour, R. R., and Brown.)
Brown, Theophilus, and F. T. Court, assignors to Deere & Company, Moline, Ill. Hydraulic control mechanism. 2,311,516; Feb. 16.
Brush Beryllium Company. (See Sawyer, C. B., and Kjellgren, assignors.)
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Tri-(cyanoethyl)-acetone. 2,311,183; Feb. 16.
Büchi, Alfred, Winterthur, Switzerland. Guide apparatus for centrifugal blowers and pumps. 2,311,024; Feb. 16.
Bucyrus-Erie Company. (See Blanchett, Luther E., assignor.)
Buda Company, The. (See Brown, H. S., and Thompson, assignors.)
Budd, Edward G., Manufacturing Company. (See Ulrich, Theodore, assignor.)
Bulpitt, Walter H., Birmingham, England. Electric thermal switch. 2,311,206; Feb. 16.

Buraczynski, Casimer J., Milwaukee, Wis. Differentially balanced torque transmission. 2,311,150; Feb. 16.
Burger, Clarence W., Arlington, Va. Cigarette dispenser. 2,310,933; Feb. 16.
Burgner, Charles F., Reading, Pa. Measuring and marking device. 2,311,025; Feb. 16.
Burka, Samuel M. (See Thurlow, T. L., and Burka.)
Burke, William J., R. W. Maxwell, and P. S. Pinkney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile treatment. 2,311,027; Feb. 16.
Buschbeck, Werner, Berlin-Grunewald, and H. Zumbusch, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Broad-band antenna. 2,311,364; Feb. 16.
Bush, J. E. (See Dubour, R. R., and Brown, assignors.)
Bussey, Allen C., assignor to Bussey Pen Products Company, Chicago, Ill. Pen construction. 2,311,207; Feb. 16.
Bussey Pen Products Company. (See Bussey, Allen C., assignor.)
Buxton, Loran O., Harrison, and S. T. Lipsius, Newark, assignors to National Oil Products Company, Harrison, N. J. Incorporating vitamins A and D into aqueous mediums. 2,311,517; Feb. 16.
Byers, A. M., Company. (See Story, Edward B., assignor.)
Caldwell, Charles W., Johannesburg, Transvaal, Union of South Africa. Hand-brake lever. 2,311,208; Feb. 16.
Calhoun, John M. (See Swan, D. R., and Calhoun.)
California Cedar Products Company. (See Wilcox, William H., assignor.)
California Machinery & Supply Co. (See Vanderpool, Albert G. H., assignor.)
Caligari, Eugene, Jr., Norfolk, Va. Applying polished coatings to sheet units. 2,311,518; Feb. 16.
Caminez, Harold, Kew Gardens, assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Shrunk connection, particularly for tubular members. 2,311,329; Feb. 16.
Campbell, Harold C., Ashley, assignor to The Ashley Machine Company, Piqua, Ohio. Poultry picking machine. 2,311,365; Feb. 16.
Campbell, James R., Altadena, Calif., assignor to The H. A. Wilson Company, Newark, N. J. Thermo-responsive device. 2,310,934; Feb. 16.
Campbell, John G., Houston, assignor to R. H. Fash, trustee, Fort Worth, Tex. Analysis of soil samples for determining oil content. 2,311,151; Feb. 16.
Canadian-American Pharmaceutical Company. (See Connell, Hendry C., assignor.)
Canal National Bank of Portland, trustee, The. (See Sawyer, Edward E., assignor.)
Canter, Morris, New York, N. Y. Tag seal. 2,311,152; Feb. 16.
Carbide and Carbon Chemicals Corporation. (See Powell, George M., III, assignor.)
Carbide and Carbon Chemicals Corporation. (See Staff, Charles E., assignor.)
Carbide and Carbon Chemicals Corporation. (See Staff, C. E., and Stoops, assignors.)
Carey, Hugh D., Syracuse, N. Y. Outdoor fireplace. 2,311,366; Feb. 16.
Carlo, Ralph, Tujunga, Calif. Self-adjusting book cover. 2,311,153; Feb. 16.
Carlsen, Leonard O. (See Wildhaber, E., and Carlsen.)
Carlson, Robert C., Terrace Park, assignor to J. J. Emery, doing business as Emery Carpenter Container Company, Cincinnati, Ohio. Container. 2,311,291; Feb. 16.
Carlton, Richard P., and B. J. Oakes, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Resinous composition. 2,310,935; Feb. 16.
Carnagua, Harold E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Planetary transmission. 2,311,209; Feb. 16.
Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Agglomerating commercial carbon black. 2,311,154; Feb. 16.
Carr, Clifford H., Kansas City, Mo. Heat exchange apparatus. 2,311,155; Feb. 16.
Carring, Carl A., Stockholm, Sweden. Filtering and sterilizing apparatus for water. 2,311,519; Feb. 16.
Carroll, Frederick C., Jr. (See Friden, C. M., and Carroll.)
Carter Carburetor Corporation. (See Berry, Russell G., assignor.)
Carter, James S. F. (See Bogart, M. J. P., and Carter.)
Casco Products Corporation. (See Johnson, Arthur A., assignor.)
Castner, Theron S., Minneapolis, Minn. Scaffold. 2,311,210; Feb. 16.
Casto, Lloyd V., Detroit, Mich. Decorating and molding of transparent sheets. 2,311,156; Feb. 16.
Celanese Corporation of America. (See Whitehead, William, assignor.)
Century Motors Corporation. (See Dusevoir, Julius, assignor.)
Chambers, Laura A., St. Louis, Mo. Liquid applicator. 2,311,367; Feb. 16.
Chance, A. B., Company. (See Swearingen, William C., assignor.)
Chaston, Jack C., Wembley, Middlesex, England. Electric heating element. 2,311,028; Feb. 16.
Cherksey, Arthur C. (See Matthews, E. I., Cherksey, and Scheinfeld.)
Cheston, Arthur S., et al. (See Oldham, Fred A. M., assignor.)
Cheston, Basil, et al. (See Oldham, Fred A. M., assignor.)
Chevigny, Georges P., assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge apparatus. 2,310,936; Feb. 16.
Chicago Rawhide Manufacturing Company. (See Vedovell, Rudolph J., assignor.)
Chisholm-Ryder Company. (See De Jack, William, assignor.)
Ciba Pharmaceutical Products, Incorporated. (See Miescher, K., and Wettstein, assignors.)
Ciba Pharmaceutical Products, Incorporated. (See Wettstein, Albert, assignor.)
Cito, Camillo, Uccle-Brussels, Belgium; vested in the Alien Property Custodian. Transforming rotary to reciprocatory motion as applied to cutting machines. 2,311,368; Feb. 16.
Clark, Nobl C. (See Widman, C. H. and Clark.)
Class, George M., assignor to Gisholt Machine Company, Madison, Wis. Turning attachment. 2,311,211; Feb. 16.
Clemens, John E. (See Holtzclaw, J. B. and Clemens.)
Clements Mfg. Co. (See Clements, William J., assignor.)
Clements, William J., assignor to Clements Mfg Co., Chicago, Ill. Tank type vacuum cleaner and supporting means therefor. 2,311,369; Feb. 16.
Cleveland Graphite Bronze Company, The. (See Klocke, William H., assignor.)
Cleveland Graphite Company, The. (See Swartz, Carl E., assignor.)
Cleveland Steel Products Corporation. (See Slaght, William W., assignor.)
Clifford, David G., Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Coupling loop. 2,311,520; Feb. 16.
Cluett, Peabody & Co. (See McFalls, R. J., and Herrington, assignors.)
Coberly, Clarence J., Los Angeles, Calif., assignor to Roko Corporation, Reno, Nevada. Fluid operated pump with built-in governor. 2,311,157; Feb. 16.
Coberly, Clarence J., Los Angeles, Calif., assignor to Roko Corporation, Reno, Nev. Bleeder construction. 2,311,212; Feb. 16.
Colburn, Bearl E., Green Bay, Wis. Dispenser. 2,311,521; Feb. 16.
Cole, Charles E., Portland, Oreg. Game. 2,311,029; Feb. 16.
Coleman, Gerald H. (See Zemba, J. W., and Coleman.)
Coleman, Gerald H., and J. W. Zemba, assignors to The Dow Chemical Company, Midland, Mich. Preparation of styrene copolymers. 2,311,607; Feb. 16.
Coleman, Hilma, executrix. (See Coleman, William F.)
Coleman, William F., deceased, Richmond, Calif., H. Coleman, executrix. Butter slicing and dispensing machine. 2,311,618; Feb. 16.
Collins, Patrick J., Newark, N. J. Engine mounting and control. 2,311,303; Feb. 16.
Colorado Fuel and Iron Corporation, The. (See Frantz, P. M., and Bertholf, assignors.)
Connell, Hendry C., Kingston, Ontario, Canada, assignor to Canadian-American Pharmaceutical Company, Wilmington, Del. Pain-alleviating material. 2,310,937; Feb. 16.
Conron, William H., Haddonfield, N. J., and B. W. Suckle, Philadelphia, Pa., assignors to Radio Corporation of America. High frequency receiver. 2,311,522; Feb. 16.
Container Company, The. (See Bergstrom, Harold A., assignor.)
Continental Can Company. (See Beno, Norman J., assignor.)
Conway, James V., Hinsdale, and W. P. Crockett, Evanston, assignors of one-third to A. C. Doe, Chicago, Ill. Making dentures. 2,311,158; Feb. 16.
Cope, Kenneth V., and H. H. Helmers, Merrill, Iowa. Combination hay buck, stacker, and loader. 2,311,523; Feb. 16.
Corn Products Refining Company. (See Sturken, Oswald C. H., assignor.)
Court, Frank T. (See Brown, T., and Court.)
Couse, Kibbey W., Newark, N. J. Power take-off. 2,311,030; Feb. 16.
Coyne, Guy R., Milwaukee, Wis., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,310,938; Feb. 16.
Cramer, Raymond H., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Grinding machine. 2,311,213; Feb. 16.
Crary, Seldon B., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit breaker equipment. 2,311,370; Feb. 16.
Crawford, David J., United States Army, Durant, Miss. Periscope. 2,310,939; Feb. 16.
Crocker, Thomas F., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,311,214; Feb. 16.
Crockett, William P. (See Conway, J. V., and Crockett.)
Cross, Cedric B. (See Carrigus, C. G., and Cross.)
Crow, Luther H. (See Lehti, D. W., and Crow.)

Crowley, Edward C., Rhinebeck, N. Y. Electric heater. 2,311,371; Feb. 16.
Curtis Companies Incorporated. (See Beil, Forrest F., assignor.)
D. F. H. Novelty Furniture Co. (See Worth, Joseph, assignor.)
Daly, Le Grand, Port Clinton, Ohio. Self-packing piston. 2,310,917; Feb. 16.
Daniels, Joseph. (See Totzek, F., and Daniels.)
Davis, Dean W., Oak Park, Ill. Solenoid. 2,311,431; Feb. 16.
Davis, Dean W., Oak Park, Ill. Solenoid. 2,311,432; Feb. 16.
Dearborn Chemical Company. (See Reynolds, Albert H., assignor.)
Dearborn Chemical Company. (See Shoan, Raymond A., assignor.)
De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Can draining and filling apparatus. 2,310,940; Feb. 16.
De Boer, Jan H. (See Alink, R. J. H., de Boer, Klaassens, and Veenemans.)
Deere & Company (See Brown, T., and Court, assignors.)
De Fraties, Clifford A., Moline, Ill. Utility pocket knife. 2,311,107; Feb. 16.
De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Change speed gearing. 2,311,031; Feb. 16.
Denning, Paul S., assignor to F. E. Schundler & Co., Inc., Joliet, Ill. Making refractory insulating blocks. 2,311,588; Feb. 16.
Dennis, Martin, Company, The. (See Klebsattel, Charles A., assignor.)
Dershem, Herbert L., near Yellow Springs, Ohio. Jig. 2,311,433; Feb. 16.
Detroit Harvester Company. (See Simpson, H. W., and Abgarian, assignors.)
Dewey, Ritchie P., assignor to Barber-Colman Company, Rockford, Ill. Motor control. 2,310,941; Feb. 16.
Diamond Iron Works, Incorporated. (See Rudolph, Charles W., assignor.)
Dickey, Joseph B. (See McNally, J. G., and Dickey.)
Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,311,033; Feb. 16.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. 8-amino-5-hydroxy - 2 - sulphoethylamino 1,4 - naphthoquinone. 2,311,032; Feb. 16.
Dillehay, Edward R., Glen Ellyn, Ill., assignor to The Richardson Company, Lockland, Ohio. Preparing storage battery cases and the like. 2,311,524; Feb. 16.
Dimmick, Glenn L., Haddonfield, N. J., assignor to Radio Corporation of America. Production of sound records. 2,311,159; Feb. 16.
Diston, Henry & Sons, Incorporated. (See James, Howard C., assignor.)
Dobbelaar, Ransom A., Plainfield, N. J. Bomb thrower. 2,311,160; Feb. 16.
Dodd, Arthur E., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track circuit apparatus. 2,311,034; Feb. 16.
Doe, Adolph C. (See Conway, J. V., and Crockett, assignors.)
Dole Valve Company, The. (See Lauer, Raymond J., assignor.)
Dole Valve Company, The. (See Lund, James K., assignor.)
Donges, Conrad, Secaucus, N. J. Automobile jack. 2,310,942; Feb. 16.
Dons, Eddie M., and O. G. Mauro, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Extracting constituents of hydrocarbon liquids. 2,311,372; Feb. 16.
Dornier, Claude, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian. Flying machine. 2,311,161; Feb. 16.
Dorough, George L., Holly Oak, and D. M. McQueen, assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl acetals. 2,310,943; Feb. 16.
Douglass, James L., Cleveland Heights, Ohio. Tube coupling. 2,310,944; Feb. 16.
Dow Chemical Company, The. (See Bowen, Kenneth D., assignor.)
Dow Chemical Company, The. (See Coleman, G. H., and Zemba, assignors.)
Dow Chemical Company, The. (See Kauppi, T. A., and Kin, assignors.)
Dow Chemical Company, The. (See Zemba, J. W., and Coleman, assignors.)
Dowing Box Company. (See Evert, C. W., and Werner, assignors.)
Downy Products Co. (See Eisenberg, Maurice, assignor.)
Dressler, Adolph C., Miami, Okla., assignor, by mesne assignments, to D. Wills. Engine breather and ventilating system. 2,311,036; Feb. 16.
Drummond, Robert S., Detroit, Mich. Gear finishing. 2,311,037; Feb. 16.
Du Bois, Virgil L., Tulsa, Okla. Fluid pump or motor. 2,311,162; Feb. 16.
Dubour, Ralph R., and L. G. Brown, Oklahoma City, Okla., assignors, by mesne assignments, to J. E. Bush, Dallas, Tex. Control mechanism for shutters. 2,311,300; Feb. 16.
Dubruiel, Omar F. (See McGill, C. T., and Dubruiel.)
Dudley, William A., Chicago, Ill., assignor to Pacific Coast Borax Company. Soap dispenser. 2,311,330; Feb. 16.
Duffy, David H., assignor to Beech Aircraft Corporation, Wichita, Kans. Scarfing machine. 2,311,215; Feb. 16.
Duffy, David H., assignor to Beech Aircraft Corporation, Wichita, Kans. Contouring machine. 2,311,216; Feb. 16.
Du Pont, E. I., de Nemours & Company. (See Arthur, Paul Jr., assignor.)
Du Pont, E. I., de Nemours & Company. (See Burke, W. J., Maxwell and Pinkney, assignors.)
Du Pont, E. I., de Nemours & Company. (See Dorough, G. L., and McQueen, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hitt, Ira V., assignor.)
Du Pont, E. I., de Nemours & Company. (See Jacobson, R. A., and Mighton, assignors.)
Du Pont, E. I., de Nemours & Company. (See Macht, M. L., and Renfrew, assignors.)
Du Pont, E. I., de Nemours & Company. (See Meschter, Emery, assignor.)
Du Pont, E. I., de Nemours & Company. (See Peterson, Merlin D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Pinkney, Paul S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., and Elston, assignors.)
Du Pont, E. I., de Nemours & Company. (See Vaala, Gordon T., assignor.
Durning, James P., St. Albans, N. Y., assignor to International Cigar Machinery Company. Tobacco feeding mechanism. 2,311,373; Feb. 16.
Dusevoir, Julius, assignor to Century Motors Corporation, Dearborn, Mich. Connection. 2,311,434; Feb. 16.
Eagle Lock Company, The. (See Marsh, Milton L., assignor.)
Eastern Tool & Mfg. Co. (See Anderson, Carl E., assignor.)
Eastman Kodak Company. (See Bennett, D. E., and Fierke, assignors.)
Eastman Kodak Company. (See Dickey, Joseph B., assignor.)
Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)
Eastman Kodak Company. (See Kenyon, W. O., and Lowe, assignors.)
Eastman Kodak Company. (See Lowe, Wesley G., assignor.)
Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Nadeua, G. F., and Slack, assignors.)
Eastman Kodak Company. (See Porter, H. D., and Weissberger, assignors.)
Eastman Kodak Company. (See Salo, Martin, assignor.)
Eastman Kodak Company. (See Swan, D R., and Calhoun, assignors.)
Eastman Kodak Company. (See Tuttle, C. M., and Bornemann, assignors.)
Eastman Kodak Company. (See Weyerts, Walter J., assignor.)
Eastman Kodak Company. (See Young, R. V., and Ehrenfried, assignors.)
Ebbs, Vernon M., Somerville, assignor of one-half to W. F. Heavey, East Milton, Mass. Suction holding device. 2,311,525; Feb. 16.
Eck, Howard W. (See Ford, J. H., and Eck.)
Edmonds, Edward C., et al. (See Oldham, Fred A. M., assignor.)
Edwards, Robert B., Baltimore, Md. Oscillator circuit. 2,311,163; Feb. 16.
Efird, Crayon C., and W. L. Marshall, Albemarle, N. C. Striping apparatus. 2,311,038; Feb. 16.
Ehrenfried, George. (See Young, R. V., and Ehrenfried.)
Ehrmann, Kurt. (See Staeger, R., Assmann and Ehrmann.)
Eilers, Frank B., and F. J. Graef, assignors to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispensing nozzle. 2,311,292; Feb. 16.
Eisenberg, Maurice, Millburn, assignor, by mesne assignments, to Downy Products Co., Orange, N. J. Scouring implement. 2,310,945; Feb. 16.
Ekstedt, Henry V., assignor to E. F. Pohl, St. Louis, Mo. Electric steaming iron. 2,311,164; Feb. 16.
Electric Heating Equipment Company. (See Matthews, E. L., Cherksey, and Scheinfeld, assignors.)
Electric Household Utilities Corporation. (See Hurley, J. R., and Beattie, assignors.)
Electric & Musical Industries Limited. (See Blumlein, Alan D., assignor.)
Elgin Softener Corporation. (See McGill, C. T., and Dubruiel, assignors.)
Elliott, Charles H. (See Rees, S. E., Radack, Olsen, and Elliott.)
Elston, Arthur A. (See Reichert, J. S., and Elston.)
Emery Carpenter Container Company. (See Carlson, Robert C.)
Emery, Frederic H., Bedford, Ohio. Internal combustion motor and constructing. 2,311,039; Feb. 16.
Emery, John J. (See Carlson, Robert C., assignor.)

Emmert, George W., Evanston, Ill. Quiz game. 2,311,217; Feb. 16.
Equitable Paper Bag Co., Inc. (See Poppe, George W., assignor.)
Ericson, Nils, Stockholm, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Measuring the torque of combustion engines. 2,311,331; Feb. 16.
Essex Rubber Company. (See Oakley, Laurence M., assignor.)
Evans, Francis C. (See Farmer, P. M., Evans, and Spamer.)
Evert, Charles W., and A. W. Werner, assignors to Downing Box Company, Milwaukee, Wis. Container. 2,311,040; Feb. 16.
Ex-Cell-O Corporation. (See Mathys, Max A., assignor.)
Ex-Cell-O Corporation. (See Stewart, Gilbert, assignor.)
Falk Corporation, The. (See Schmitter, Walter P., assignor.)
Fandrich, Victor H., Auburn, N. Y. Display card. 2,311,218; Feb. 16.
Fansteel Metallurgical Corporation. (See Gwyn, Childress B., Jr., assignor.)
Farmer, Paul M., Maplewood, N. J., F. C. Evans, Dongan Hills, Staten Island, and R. F. Spamer, Lynbrook, assignors to The American District Telegraph Company, New York, N. Y. Automatic fire control system for ventilating or air conditioning systems. 2,311,374; Feb. 16.
Farnsworth Television and Radio Corporation. (See Pressley, Jackson H., assignor.)
Farwick, Theodore, assignor to American Gas Furnace Company, Elizabeth, N. J. Flow indicator. 2,311,375; Feb. 16.
Fash, Ralph H., trustee. (See Campbell, John G., assignor.)
Feder, Harry, Jackson Heights, assignor to Barclay Manufacturing Co. Inc., New York, N. Y. Making scored wallboard. 2,311,589; Feb. 16.
Feder, Harry, Jackson Heights, assignor to Barclay Manufacturing Co. Inc., New York, N. Y. Scored wallboard. 2,311,590; Feb. 16.
Ferguson, William C., and P. Sussenbach, assignors to The Presstite Engineering Company, St. Louis, Mo. Heat-conducting luting material. 2,311,526; Feb. 16
Ferguson, William H., Flint, Mich. Appliance for working on automobile body panels. 2,311,041; Feb. 16.
Ferguson, William H., Flint, Mich. Holding device for automobile body parts. 2,311,042; Feb. 16.
Ferguson, William S., Shaker Heights, Ohio. Bracket for highway guards. 2,311,219; Feb. 16.
Ferguson, William S., Shaker Heights, Ohio. Guard rail end suspension. 2,311,220; Feb. 16.
Ferguson, William S., Shaker Heights, Ohio. Guard rail construction. 2,311,221; Feb. 16.
Fierke, Scheuring S. (See Bennett, D. E., and Fierke.)
Finch, William G. H., Newton, Conn. Facsimile recording paper. 2,310,946; Feb. 16.
Fischer, Herbert G. M. (See Tyson, C. W., Murphree, and Fischer.)
Fischer, William R., Dayton, Ohio. Automatic take-up device. 2,310,947; Feb. 16.
Fitch, Benjamin F., Zaccheus Meade Lane, Fairfield County, Conn., and R. A. Norbom, Nutley, N. J., assignors, by mesne assignments, to National Fitch Corporation, New York, N. Y. Demountable freight container. 2,310,948; Feb. 16.
Fleischner, Richard P., Scarsdale, N. Y. Watch stand. 2,311,332; Feb. 16.
Foil, Clifton C. (See Miller, L. A., and Foil.)
Folmer Graflex Corporation, The. (See Jacobson, Irving, assignor.)
Ford, Jared H., Washington, D. C., and H. W. Eck, East Lansing, Mich., assignors to Kilgore Development Corporation, Washington, D. C. Lethal composition for insects. 2,310,949; Feb. 16.
Fossa, Joseph, Salem, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe upper lacing machine. 2,311,165; Feb. 16.
Foster, Levin W., Pittsfield, Mass., assignor to General Electric Company. Protective circuit. 2,311,376; Feb. 16.
Frantz, Philip M., and W. M. Bertholf, Pueblo, assignors to The Colorado Fuel and Iron Corporation, Denver, Colo. Flotation. 2,311,527; Feb. 16.
Freer, Phelps M., Detroit, Mich. Brake. 2,311,528; Feb. 16.
Freer, Phelps M., Detroit, Mich. Brake. 2,311,529; Feb. 16.
Freer, Phelps M., Detroit, Mich. Brake. 2,311,530; Feb. 16.
Fregeolle, Oscar, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric and method. 2,311,166; Feb. 16.
French, Joseph S., Glendale, Calif. Container. 2,311,333; Feb. 16.
Frey, Charles N. (See Schultz, A. S., Atkin, and Frey.)
Friden Calculating Machine Co. (See Friden, C. M., and Carroll, Jr., assignors.)
Friden, Carl M., and F. C. Carroll, Jr., Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Calculating machine. 2,311,354; Feb. 16.
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Fulkerson, Hubert W. (See West, R. A., and Fulkerson.)
Fuller Manufacturing Company. (See Backus, Thomas, assignor.)
Fulton, Donald A., Los Angeles, Calif. Rotary pump. 2,311,334; Feb. 16.
Fulton, Stewart C., Elizabeth, N. J., assignor to Standard Oil Development Company. Catalytic alkylation process. 2,311,531; Feb. 16.
Furey, Joseph R., Avonmore, Pa. Rope swivel and clamp. 2,311,043; Feb. 16.
G & A Laboratories, Inc. (See Hasselstrom, Torsten, assignor.)
Gaertner, Moritz, New York, N. Y. Oil filter. 2,311,377; Feb. 16.
Gage, Charles B., Wilkes-Barre, Pa. Tampion. 2,311,377; Feb. 16.
Galiano, Julian S., Cut Off, assignor of forty per cent to H. G. Simoneaux, Golden Meadow, La. Trap. 2,311,378; Feb. 16.
Galion Iron Works & Manufacturing Company, The. (See Keeler, Raymond W., assignor.)
Galkin, Joseph, New York, N. Y. Zigzag sewing mechanism. 2,311,222; Feb. 16.
Gans, Fred W., assignor to Sloane-Blabon, Trenton, N. J. Producing linoleum products. 2,311,044; Feb. 16.
Garrigus, Clarence G., Haddam, and C. B. Cross, Moodus, assignors, to Production Devices Incorporated, East Hartford, Conn. Vise. 2,311,335; Feb. 16.
Gasoline Products Company. (See Ward, John T., assignor.)
Geibig, Frank C., Westfield, N. J., assignor to Union Carbide and Carbon Corporation. Portable blowpipe machine. 2,311,223; Feb. 16.
Geigy, J. R., A. G. (See Martin, H., Zaeskin, Hirt, Glatthaar, and Staub, assignors.)
Gendriess, Erwin, Berlin, Germany; vested in the Alien Property Custodian. Push button tuned receiver with motor drive. 2,311,168; Feb. 16.
General Aniline & Film Corporation. (See Staeger, R., Assmann and Ehrmann, assignors.)
General Auto Parts Corporation. (See Rockwell, Edward A., assignor.)
General Electric Company. (See Crary, Selden B., assignor.)
General Electric Company. (See Foster, Levin W., assignor.)
General Electric Company. (See Hansen, Albert, Jr., assignor.)
General Electric Company. (See Hoyt, John C., assignor.)
General Electric Company. (See Judkins, Forrest H., assignor.)
General Electric Company. (See Knight, James L., assignor.)
General Electric Company. (See Macchi, Aldo, assignor.)
General Electric Company. (See Mansfield, A. P., La Pierre, Janssen, and Mead, assignors.)
General Electric Company. (See Marsh, Myrle O., assignor.)
General Electric Company. (See Merrill, Frank W., assignor.)
General Electric Company. (See Neal, Frank C., Jr., assignor.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Electric Company. (See Wild, Albert F., assignor.)
General Motors Corporation. (See Cramer, Raymond H., assignor.)
General Motors Corporation. (See Gould, Richard E., assignor.)
General Motors Corporation. (See Harrold, Marshall C., assignor.)
General Motors Corporation. (See Landell, Stanford, assignor.)
General Motors Corporation. (See Lange, William F., assignor.)
General Motors Corporation. (See Lauer, Carleton J., assignor.)
General Motors Corporation. (See Meyer, Engelbert A., assignor.)
General Motors Corporation. (See Winkelmyer, Robert D., assignor.)
General Oil Burnel Company. (See Nest, Richard E.)
Gerhard, Ernst, Berlin, Germany; vested in the Alien Property Custodian. Duplex radio communication. 2,311,435; Feb. 16.
Gershon, Victor P., New York, N. Y. Liquid treatment apparatus. 2,311,532; Feb. 16.
Gertzog, Irving and L., assignors to Rochester Button Company, Rochester, N. Y. Iridescent plastic composition. 2,311,533; Feb. 16.
Gertzog, Louis. (See Gertzog, Irving and L.)
Gilbert & Barker Manufacturing Company. (See De Lancey, Warren H., assignor.)
Gillanders, Maxwell D., assignor to Knapp-Monarch Company, St. Louis, Mo. Juicer. 2,311,379; Feb. 16.
Gilman Fanfold Corporation. (See Hope, William H., Jr., assignor.)
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,311,035; Feb. 16.

Gisholt Machine Company. (See Class, George M., assignor.)
Giuseffi, Vincent, South Orange, N. J. Bedrail. 2,311,537; Feb. 16.
Glatthaar, Curt. (See Martin, H., Zaeslin, Hirt, Glatthaar, and Staub.)
Gleason, Anthony H., Westfield, N. J., assignor to Standard Oil Development Company. Polyester compounds and making same. 2,311,534; Feb. 16.
Gleason Works. (See Stewart, Arthur L., assignor.)
Gleason Works. (See Wildhaber, E., and Carlsen, assignors.)
Goldman, Bronislaw, Canton, Ohio. Wash machine. 2,310,950; Feb. 16.
Goldmann, Joachim, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Directive antenna. 2,311,535; Feb. 16.
Goodman, Sol, New York, N. Y. Assembly machine. 2,311,536; Feb. 16.
Gora, Henry Z., Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y. Hydraulic valve mechanism. 2,311,336; Feb. 16.
Gordon, Julius G., Yakima, and M. A. Lesh, near Yakima, assignors to Washington State Hop Producers, Inc., Yakima, Wash. Hop picking and cleaning machine. 2,311,169; Feb. 16.
Gordon, Robert H., Detroit, Mich., and R. P. Tooke, Butler, Pa., assignors to The American Rolling Mill Company, Middletown, Ohio. Apparatus for treating metal strips. 2,311,616; Feb. 16.
Gottlieb, Mortiz M., Allentown, Pa. Radio clock. 2,311,380; Feb. 16.
Gould, Richard E., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,311,224; Feb. 16.
Goulooze, Martin J., Grand Rapids, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,311,045; Feb. 16.
Grable, Donovan B., Long Beach, Calif. Pipe rotating apparatus. 2,311,225; Feb. 16.
Graef, Forrest J. (See Eilers, F. B., and Graef.)
Green, Howard D., assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Device for damping pressure. 2,311,381; Feb. 16.
Greene, Lloyd C., Sanford, Maine. Process and apparatus for forming and treating yarn. 2,310,951; Feb. 16.
Greenhalgh, Richard, and H. A. Piggott, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of aromatic isocyanates. 2,311,046; Feb. 16.
Greer, Thomas H., San Diego, Calif. Preparing wearing surfaces. 2,310,952; Feb. 16.
Griner, Benjamin T. (See Newton, S. H., and Griner.)
Groene, William F., and R. M. Bacon, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Step threading mechanism. 2,311,591; Feb. 16.
Gross, Oscar, Peggy, Tex. Terracing machine. 2,311,337; Feb. 16.
Grotenhouse, James T., assignor to Silent Sioux Oil Burner Corporation, Orange City, Iowa. Flue heat extractor. 2,311,226; Feb. 16.
Guenther, Henry L., Los Angeles, Calif. Can double seaming machine. 2,311,538; Feb. 16.
Gueterbock, Hermann. (See Otto, M., Gueterbock, and Hellemanns.)
Günther, Erich. (See Helferich, B., and Günther.)
Gwyn, Childress B., Jr., Deerfield, assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Electrical contacts. 2,311,436; Feb. 16.
Hagelin, William T., Chicago, Ill. Lithographic plate and making the same. 2,311,047; Feb. 16.
Haggard and Marcusson Co. (See Sark, Ward T., assignor.)
Hain, James C., Los Angeles, Calif. Building wall. 2,311,170; Feb. 16.
Hall Laboratories, Inc. (See Schwartz, Charles, assignor.)
Ham, Garnet P., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of high concentrated fixing and hardening sirups. 2,311,293; Feb. 16.
Handley, George F., Glendale, and W. O. Michelsen, Woodhaven, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,311,227; Feb. 16.
Hanley, John A., Noroton, Conn. Submarine. 2,311,539; Feb. 16.
Hansen, Albert, Jr., Nahant, Mass., assignor to General Electric Company. Magnetic suspension. 2,311,382; Feb. 16.
Hansen, Merrill E., Silver Lake, assignor to American Anode Inc., Akron, Ohio. Method and apparatus for making thick latex rubber sheeting. 2,311,617; Feb. 16.
Hanson, Milton E., Haddonfield, N. J., assignor to B. F. Sturtevant Company, Boston, Mass. Refrigeration apparatus for air conditioned passenger vehicles. 2,311,294; Feb. 16.
Hapanowicz, Charles, Newark, N. J., assignor of fifty per cent to H. J. Newmark, New York, N. Y. Fastening device. 2,311,592; Feb. 16.
Hardenberg, Jan J., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., trustee. Film unwinding mechanism. 2,311,383; Feb. 16.
Harpstrite, Augustus J., assignor to J. C. Harpstrite, Los Angeles, Calif. Roller rocker. 2,311,384; Feb. 16.
Harpstrite, Julia C. (See Harpstrite, Augustus J., assignor.)
Harris, Carl A. (See Archibald, F. M., and Harris.)
Harris-Seybold-Potter Company. (See Wood, William H., assignor.)
Harrold, Marshall C., assignor to General Motors Corporation, Dayton, Ohio. Electric switch. 2,311,048; Feb. 16.
Hartford National Bank and Trust Company, trustee. (See Alink, R. J. H., de Boer, Klaassens, and Veenemans, assignors.)
Hartford National Bank and Trust Company, trustee. (See Hardenberg, Jan J., assignor.)
Hasbrouck, Harold J., Jr., Merchantville, N. J., assignor to Radio Corporation of America. Sound translating apparatus. 2,311,385; Feb. 16.
Hasselstrom, Torsten, assignor of one-half to G & A Laboratories, Inc., Savannah, Ga. Stabilizing tall-oil materials. 2,311,386; Feb. 16.
Hastings, Clark L., Brighton, assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y. Liquid level gauge. 2,311,387; Feb. 16.
Hastings, Roger W., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cabinet construction. 2,311,540; Feb. 16.
Hathaway, Hubert B., Windsor, Ontario, Canada, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Fabric folding and cutting machine. 2,311,541; Feb. 16.
Hauser, Fred, Los Angeles, Calif. Control device for sequential operation of service valves. 2,311,108; Feb. 16.
Haut, Jacob, Brooklyn, N. Y. Torpedo interceptor. 2,311,388; Feb. 16.
Hawks, Robert C., and E. M. Skinner, Augusta, Kans., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method and apparatus for handling asphalt. 2,311,389; Feb. 16.
Hawthorne, Laurence, Los Angeles, Calif. Captive parachute device. 2,311,171; Feb. 16.
Hayden, Kenneth F. (See Kalichevsky, V. A., Scafe, and Hayden.)
Heany Industrial Ceramic Corporation. (See Heany, John A., assignor.)
Heany, John A., New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y. Ceramic from bauxite and making same. 2,310,955; Feb. 16.
Heany, John A., New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y. Bauxite ceramic and making same. 2,311,228; Feb. 16.
Heavey, William F. (See Ebbs, Vernon M., assignor.)
Hechenbleikner, Ingenuin. (See Roblin, R. O., Jr., and Hechenbleikner.)
Hedden, Henry G., Bay Pines, Fla. Article carrying attachment for crutches. 2,311,049; Feb. 16.
Heiss, Harvey, assignor, by mesne assignments, to American Molded Products Co., Chicago, Ill. Resilient contact for bumper switches. 2,311,392; Feb. 16.
Helferich, Burckhardt, and E. Günther, Leipzig, Germany, assignors to Schering Corporation, Bloomfield, N. J. Iodo derivatives of steroid compounds and manufacturing the same. 2,311,050; Feb. 16.
Hellemanns, Alfred. (See Otto, M., Gueterbock, and Hellemanns.)
Helmers, Henry H. (See Cope, K. V., and Helmers.)
Hemphill Company. (See Fregeolle, Oscar, assignor.)
Hennessy, James J., Montclair, N. J. Railway journal lubricator device. 2,311,390; Feb. 16.
Herbert, Elmer H., assignor to Oliver United Filters Incorporated, Oakland, Calif. Pump. 2,311,229; Feb. 16.
Herold, James L., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Method of and apparatus for removing labels from bottles. 2,311,391; Feb. 16.
Herrington, Rolland. (See McFalls, R. J., and Herrington.)
Hettrick Manufacturing Company. (See Smith, William I., assignor.)
Hetzel, Kurt, Washington, D. C. Racket. 2,311,172; Feb. 16.
Heuschober Engineering Corporation. (See Lacy, James W., assignor.)
Hickey, James, Portland, Oreg. Feed reversing mechanism for sewing machines. 2,311,184; Feb. 16.
Hilblom, Samuel E., assignor. (See MacDonald, R. D., and Hilblom.)
Hill, Charles, Reno, Nev. Spring winding device. 2,311,230; Feb. 16.
Hill, Richard O. H., Larchmont, N. Y. Cardcase. 2,311,173; Feb. 16.
Hirsch, Friedrich P. (See Main, D. W., and Hirsch.)
Hirt, Rudolph. (See Martin H., Zaeslin, Hirt, Glatthaar, and Staub.)

Hitt, Ira V., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile crinkler. 2,311,174; Feb. 16.
Hitt, Ira V., Kenmore, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bobbin brake. 2,311,175; Feb. 16.
Hodgman, Frederick S., Glen Rock, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Balanced automatic steering device. 2,310,954; Feb. 16.
Holme, Edward D., St. Joseph, Mo. Bed. 2,311,542; Feb. 16.
Holtzclaw, John B., Roselle, and J. E. Clemens, Elizabeth, N. J., assignors to Standard Oil Development Company. Wax composition. 2,311,338; Feb. 16.
Homrighous, John H., Oak Park, Ill. Weighing scale. 2,311,437; Feb. 16.
Honeywell, Edward R., Salisbury, Md. Power drive for motor vehicles. 2,311,393; Feb. 16.
Hope, William H., Jr., Lewiston, assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y. Strip feed for writing machines. 2,311,051; Feb. 16.
Horn, Robert S., assignor of one-half to C. L. Hunsicker, San Francisco, Calif. Illuminating apparatus of the gaseous glow tube type. 2,311,543; Feb. 16.
Hornfeck, Anthony J., Cleveland, Ohio. System of measurement and/or control. 2,310,955; Feb. 16.
Houdry Process Corporation. (See Lassiat, Raymond C., assignor.)
Hover, Monte E., Culver City, Calif. Hoist. 2,311,544; Feb. 16.
Hoy Equipment Company. (See Hoy, Frank H., assignor.)
Hoy, Frank H., Milwaukee, Wis. Apparatus for the multiple molding of hams and the like. 2,310,956; Feb. 16.
Hoy, Frank H., assignor to Hoy Equipment Company, Milwaukee, Wis. Apparatus for the multiple molding of hams and the like. 2,310,957; Feb. 16.
Hoy, Frank H., assignor to Hoy Equipment Company, Milwaukee, Wis. Apparatus for molding meats. 2,310,958; Feb. 16.
Hoyt, John C., Upper Darby, Pa., assignor to General Electric Company. Circuit control system. 2,311,438; Feb. 16.
Hucke, Herbert M., Arlington, Va., assignor to United Air Lines Transport Corporation, Chicago, Ill. Static discharge device. 2,311,608; Feb. 16.
Hunna, Emerich, executor. (See Lilienfeld, Leon.)
Hunsicker, Clyde L. (See Horn, Ribert S., assignor.)
Hunt, John O., Ware Shoals, S. C., assignor to Ware Shoals Manufacturing Co., New York, N. Y. Control mechanism. 2,311,394; Feb. 16.
Hurley, John R., Wheaton, and J. P. Beattie, Oak Park, assignors to Electric Household Utilities Corporation, Chicago, Ill. Control for washing machines. 2,311,545; Feb. 16.
Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Table tennis racket. 2,311,546; Feb. 16.
Hurup, Rolf, Minneapolis, Minn. Accountant's apparatus. 2,311,052; Feb. 16.
Huse, Hiram N., Providence, R. I. Method of and apparatus for winding spheres. 2,311,339; Feb. 16.
Hutchison, Miller R., New York, N. Y., assignor to Mock-Up Incorporated. Producing accurate replicas and product. 2,311,547; Feb. 16.
Hutton, William, Monterey, Calif., assignor to Seapride Packing Corporation, Ltd. Filleting fish. 2,311,176; Feb. 16.
Illinois Tool Works. (See Olson, Carl G., assignor.)
Illsche, Arthur, Rye, N. Y. Fastener for garments and other articles. 2,311,231; Feb. 16.
Imperial Chemical Industries Limited. (See Greenhalgh, R., and Piggott, assignors.)
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Duplex lapping machine. 2,311,185; Feb. 16.
Industrial Abrasives, Inc. (See Ware, Willis C., assignor.)
Industrial Patents Corporation. (See Newton, Lowell R., assignor.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Inman, William H., assignor to Bloomer Bros. Company, Newark, N. Y. Box construction. 2,311,053; Feb. 16.
International Cigar Machinery Company. (See Durning, James P., assignor.)
International Cigar Machinery Company. (See Wheeler, Henry H., assignor.)
International Harvester Company. (See MacDonald, R. D., and Hilblom, assignors.)
International Harvester Company. (See Renno, Donald G., assignor.)
International Standard Electric Corporation. (See Chevigny, Georges P., assignor.)
International Standard Electric Corporation. (See Richards, Arthur E., assignor.)
Ipatieff, Vladimir, and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,311,232; Feb. 16.
Ippolito, Joseph. (See Leavy, A., and Ippolito.)
Iwanowicz, Stanley, Detroit, Mich. Flashlight device. 2,311,439; Feb. 16.
Jacobson, Irving, Los Angeles, Calif., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Camera and light synchronizer. 2,311,440; Feb. 16.
Jacobson, Ralph A., Landenberg, Pa., and C. J. Mighton, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymers of amides of alpha-methylene monocarboxylic acids. 2,311,548; Feb. 16.
Jaenicke, Johannes, H. Knoop, H. Miedel, and O. Schweitzer, Frankfort-on-the-Main, Germany, assignors to American Lurgi Corporation, New York, N. Y. Molding synthetic resins. 2,311,233; Feb. 16.
James, Howard C., Philadelphia, assignor to Henry Disston & Sons, Incorporated, Tacony, Pa. Pruning shears. 2,310,959; Feb. 16.
James, Lloyd D., Seymour, Conn. Safety device for presses and the like. 2,311,441; Feb. 16.
James, Paul E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Refrigeration apparatus. 2,311,549; Feb. 16.
Janssen, William H. (See Mansfield, A. P., La Pierre, Janssen, and Mead, Jr.)
Jasco, Incorporated. (See Otto, M., Gueterbock, and Hellemanns, assignors.)
Jasco, Incorporated. (See Thomas, R. M., and Sparks, assignors.)
Jayne, David W., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of biguanids. 2,311,295; Feb. 16.
Jayne, David W., Jr., Old Greenwich, Conn., assignor to American Cyyanamid Company, New York, N. Y. Preparation of guanyl ureas. 2,311,296; Feb. 16.
Jenkins Bros. (See Gora, Henry Z., assignor.)
Johnson, Carl W., trustee. (See Schwartzberg, Louis, assignor.)
Johnson, Elvin H., Winnetka, Ill. Builder's hardware. 2,311,278; Feb. 16.
Johnson, Hugh B., Rochester, N. Y. Mosquito bar support. 2,311,109; Feb. 16.
Johnson, Melvin N., Faribault, Minn. Air vented tank drain. 2,311,177; Feb. 16.
Johnson, Roy W., Milwaukee, Wis. Valve. 2,311,110; Feb. 16.
Johnston, Charles S., Glencoe, assignor to Transportation Specialties Company, Chicago, Ill. Refrigerator jack. 2,311,442; Feb. 16.
Johnston, William B., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Plasticizing amino-formaldehyde resins. 2,311,341; Feb. 16.
Jorgensen, David F., Temple City, Calif. Mouse trap. 2,311,178; Feb. 16.
Judkins, Forrest H., Pittsfield, Mass., assignor to General Electric Company. Vibration-free mounting. 2,311,396; Feb. 16.
Kalichevsky, Vladimir A., E. T. Scafe, and K. F. Hayden, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treating hydrocarbons. 2,311,593; Feb. 16.
Kapper, Willard B. (See Moore, Dabiel G., assignor.)
Kauffman, John B., Janesville, Wis. Locomotive storm window. 2,311,550; Feb. 16.
Kauppi, Toivo A., and M. Kin, assignors to The Dow Chemical Company, Midland, Mich. Hot-melt coating composition. 2,311,609; Feb. 16.
Kazimirow, Antonina M., New York, N. Y. Nursing device. 2,311,397; Feb. 16.
Kearney, Daniel P., Birmingham, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,311,297; Feb. 16.
Keeler, Raymond W., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Hydraulic apparatus. 2,311,443; Feb. 16.
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Light projecting device. 2,311,444; Feb. 16.
Kellogg, M. W., Company, The. (See Wickham, H. P., and Perkins, assignors.)
Kelly, Dwight N., assignor to A. Brandwein & Company, Chicago, Ill. Bracket for box springs. 2,311,111; Feb. 16.
Kennedy, John J., New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Electrical system. 2,311,340; Feb. 16.
Kenyon, William O., and W. G. Lowe, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of amino compounds. 2,311,054; Feb. 16.
Kerns, William J., Rahway, and C. M. Beamer, Roselle, N. J., assignors to Standard Oil Development Company. Sulphur removal from hydrocarbons. 2,311,342; Feb. 16.
Kerr, Maxwell A., Collingswood, N. J., assignor to Radio Corporation of America. Sound operated control system. 2,311,445; Feb. 16.
Kestenbaum, Israel X. (See Rabinowicz, Mechel, assignor.)
Kilgore Development Corporation. (See Ford, J. H., and Eck, assignors.)
Kin, Myron. (See Kauppi, T. A., and Kin.)
Kinney, Kenneth W. (See Van Horn, O. F., Kinney, and McGlohn.)
Kjellgren, Bengt. ((See Sawyer, C. B., and Kjellgren.)
Klaassens, Klaas H. (See Alink, R. J. H., De Boer, Klaassens, and Veenemans.)
Klasing, Augustus F., Joliet, Ill. Brake operating mechanism. 2,311,398; Feb. 16.

Klebsattel, Charles A., West Orange, assignor to The Martin Dennis Company, Newark, N. J. Milling rubber. 2,311,112; Feb. 16.
Klocke, William H., Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Clutch. 2,311,113; Feb. 16.
Knapp-Monarch Company. (See Gillanders, Maxwell D., assignor.)
Knight, James L., Erie, Pa., assignor to General Electric Company. Refrigerator cabinet. 2,311,446; Feb. 16.
Knoop, Herbert. (See Jaenicke, J., Knoop, Miedel, and Schweitzer.)
Koci, Jerry C., assignor, by mesne assignments, to American Molded Products Co., Chicago, Ill. Contact switch for ball rolling games. 2,311,447; Feb. 16.
Kopas, Joseph S., Cleveland, Ohio. Testing machine. 2,311,055; Feb. 16.
Koppers Company. (See Becker, Joseph, assignor.)
Koppers Company. (See Koppers, Heinrich, assignor.)
Koppers Company. (See Schutt, John W., assignor.)
Koppers Company. (See Totzek, F., and Daniels, assignors.)
Koppers, Heinrich, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Coke oven battery. 2,311,114; Feb. 16.
Krajnc, Anthony, Superior, Wis. Cutting and gauging instrument. 2,311,234; Feb. 16.
Krause, Max, Chicago, Ill. Tree bracket. 2,311,495; Feb. 16.
Kropa, Edward L., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Copolymer of isopropenyl toluene and acrylonitrile and producing same. 2,310,961; Feb. 16.
Krueger, Frank, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can testing machine. 2,311,115; Feb. 16.
Kucera, Henry T., La Grange, Ill. Heat control apparatus. 2,311,236; Feb. 16.
Kuderman, Joseph, Detroit, Mich. Diabetic and dietetic food product. 2,311,235; Feb. 16.
Lachance, Modeste J. (See Stimpson, W. F., and Lachance.)
La Chicotte, Walter B., Jr., Haddon Heights, N. J., assignor to Radio Corporation of America. Electric piano. 2,311,399; Feb. 16.
Lacy, James W., Dallas, assignor to Heuschober Engineering Corporation, Fort Worth, Tex. Internal combustion engine. 2,311,311; Feb. 16.
Laird, Royal B., Merced, Calif. Implement combination. 2,311,551; Feb. 16.
Landell, Stanford, Grosse Pointe Farms, assignor to General Motors Corporation, Detroit, Mich. Mirror. 2,311,400; Feb. 16.
Langberg, Charles, New York, N. Y. Storing and projecting film transparencies. 2,311,056; Feb. 16.
Lange, Emil H., Lemont, Ill. Fish grapple. 2,311,401; Feb. 16.
Lange, William F., assignor to General Motors Corporation, Detroit, Mich. Steering wheel. 2,311,448; Feb. 16.
La Pierre, Cramer W. (See Mansfield, A. P., La Pierre, Janssen, and Mead, Jr.)
Lassiat, Raymond C., Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Contact treatment of fluids. 2,310,962; Feb. 16.
Lau, John B., Jersey City, N. J. Nonskid shoe. 2,311,116; Feb. 16.
Lauer, Carleton J., Flint, assignor to General Motors Corporation, Detroit, Mich. Sun visor. 2,311,402; Feb. 16.
Lauer, Raymond J., Cicero, assignor to The Dole Valve Company, Chicago, Ill. Valve. 2,310,963; Feb. 16.
Laughlin, Charles C., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Purification of titanium carbide and similar materials. 2,310,964; Feb. 16.
Laury, Napoleon A., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of chlorsulphonic acid. 2,311,619; Feb. 16.
Law, Edgar H., Kingsbury, assignor to Rolls Razor Limited, London, England. Hair cutting or clipping machine. 2,311,552; Feb. 16.
Leavy, Abraham, New York, N. Y., and J. Ippolito, Paterson, N. J. Flocked material. 2,310,965; Feb. 16.
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Bacon, assignors.)
Le Gloahec, Victor C. E., Rockland, Maine, assignor to Algin Corporation of America, New York, N. Y. Milk product and the manufacture thereof and composition therefor. 2,311,343; Feb. 16.
Lehti, David W., and L. H. Crow, Cedar Rapids, Iowa, assignors to Link-Belt Speeder Corporation, Chicago, Ill. Combination crawler and rail vehicle. 2,311,304; Feb. 16.
Leonard, Zenas. (See Mumma, H. J., and Leonard.)
Lesh, Marlowe A. (See Gordon, J. G., and Lesh.)
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Toureau, Inc. Push grader. 2,311,553; Feb. 16.
Lever Brothers Company. (See Bodman, J. W., and Pease, assignors.)
Lever Brothers Company. (See Murphy, John F., assignor.)
Levin, Carl A., assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,310,966; Feb. 16.
Levin, Carl A., assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,310,967; Feb. 16.
Liatex Corporation. (See Snyder, Chester, assignor.)
Lichter, Malvin, assignor to The Stickless Corporation, New York, N. Y. Indicator. 2,310,968; Feb. 16.
Lighter, Stephen, Milwaukee, Wis. Carton. 2,311,403; Feb. 16.
Lilienfeld, Antonio. (See Lilienfeld, Leon.)
Lilienfeld, Leon, deceased, late of Vienna, Germany, E. Hunna, Vienna, Germany, executor, A. Lilienfeld, administratrix, assignor to Lilienfeld Patents Inc., Boston, Mass. Manufacture of shaped structures from solutions of cellulose derivatives. 2,310,969; Feb. 16.
Lilienfeld Patents Inc. (See Lilienfeld, Leon, assignor.)
Lilly, Thomas F., Memphis, Tenn. Bottle cooling and vending means. 2,311,449; Feb. 16.
Limpert, Alexander S., Bay Shore, N. Y. Heat exchanger. 2,310,970; Feb. 16.
Lincoln, Bert H., and W. L. Steiner, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Stabilized high film strength lubricating oil. 2,310,971; Feb. 16.
Lindner, Gordon F. (See Livermore, H. J., Lindner and Stephens.)
Lindsay Light & Chemical Company. (See Rinnman, Harry, assignor.)
Line Material Company. (See Schultz, W. O., and Steinmayer, assignors.)
Link-Belt Speeder Corporation. (See Lehti, D. W., and Crow, assignors.)
Lipman, Michael, deceased, New York, N. Y., E. G. Bishop and J. O. Lipman, executors. Typewriter case. 2,311,057; Feb. 16.
Lipman, Olmstead, executor, et al. (See Lipman, Michael.)
Lipsius, Sol T. (See Buxton, L. O., and Lipsius.)
Lipsius, Sol T., Newark, assignor to National Oil Products Company, Harrison, N. J. Water-dispersible fat-soluble vitamin composition and preparing the same. 2,311,554; Feb. 16.
Livermore, Harvey J., and G. F. Lindner, Detroit, Mich., and H. N. Stephens, White Bear, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Rubber and asphalt dispersion cement. 2,310,972; Feb. 16.
Livermore, Harvey J., Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Water dispersed adhesive composition and articles comprising the same. 2,311,301; Feb. 16.
Lobdell, Burr, Cowdrey, Colo. Gun sight. 2,311,186; Feb. 16.
Lorenz, C., Aktiengesellschaft. (See Goldmann, Joachim, assignor.)
Lose, Charles, Jr., Cranford, N. J. Filter bed cleaner. 2,311,594; Feb. 16.
Lott, William A., East Orange, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. β-alkyl-cinnamic acid derivatives. 2,310,973; Feb. 16.
Love, Lowrey. (See Brower, P. V., and Love.)
Loveday, William H. N., Aldbourne, Marlborough, England. Hydraulic epicyclic transmission device. 2,311,237; Feb. 16.
Lowe, Wesley G. (See Kenyon, W. O., and Lowe.)
Lowe, Wesley G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic silver halide emulsion. 2,311,058; Feb. 16.
Lowe, Wesley G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic silver halide emulsion. 2,311,059; Feb. 16.
Lubri-Zol Development Corporation, The. (See Lincoln, B. H., and Steiner, assignors.)
Lubri-Zol Development Corporation. (See Prutton, Carl F., assignor.)
Lumm, Harvey N., Dayton, Ohio. Instrument field testing set. 2,310,974; Feb. 16.
Lummus Company, The. (See Bogart, M. J. P., and Carter, assignors.)
Lund, James K., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Valve mechanism. 2,310,975; Feb. 16.
Lurrain, Nathaniel M., New York, N. Y. Depilatory abrasive pad. 2,311,060; Feb. 16.
Lutherer, Otto, Solon, assignor to The North American Manufacturing Company, Cleveland, Ohio. Governor valve mechanism. 2,311,061; Feb. 16.
Macchi, Aldo, Belleville, N. J., assignor to General Electric Company. Conversion oil burner. 2,311,404; Feb. 16.
MacClatchie Manufacturing Company of California. (See Green, Howard D., assignor.)
MacDonald, Raymore D., Battle Creek, Mich., and S. E. Hilblom, Chicago, Ill., assignors to International Harvester Company. Agricultural implement. 2,311,117; Feb. 16.
Machlet, Adolph W., Elizabeth, N. J. Bathing workpieces in a controlled atmosphere. 2,311,344; Feb. 16.
Macht, Maurice L., Jersey City, and M. M. Renfrew, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of synthetic filament. 2,311,405; Feb. 16.
MacIsaac, Donald, Downey, Calif. Hoist for materials. 2,311,555; Feb. 16.

MacKinnon, Donald J., Seattle, Wash. Air-flow indicator. 2,311,238; Feb. 16.
Magnal Products Limited. (See Pyle, P. R. C., and Sheppard, assignors.)
Main, Donald W., and F. P. Hirsch, assignors to Michigan Patents Corporation, Jackson, Mich. Self-sealing coupling. 2,311,239; Feb. 16.
Mallory, P. W., & Co. (See Zimmerman, H. M., and Puerner, assignors.)
Mansfield, Albert P., Lynnfield, Mass., C. W. La Pierre, and W. H. Janssen, Schenectady, and M. S. Mead, Jr., Hempstead, N. Y., assignors to General Electric Company. Measuring lengths and correcting skew and bow in woven material. 2,311,406; Feb. 16.
Marden, John W., and M. G. Nicholson, Jr., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ultra violet lamp. 2,311,487; Feb. 16.
Marinsky, Isaac, Providence, R. I. Slide fastener. 2,311,556; Feb. 16.
Marsh, Myrle O., Fort Wayne, Ind., assignor to General Electric Company. Transformer. 2,311,450; Feb. 16.
Marien, Charles A. and M. W., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Coating for piston rings. 2,311,240; Feb. 16.
Marien, Melvin W. (See Marien, Charles A. and M. W.)
Marsh, Hallan N., Huntington Park, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Continuous mud weight indicator. 2,311,312; Feb. 16.
Marsh, Leona. (See Brennan, J. B., and Marsh.)
Marsh, Milton L., New Britain, assignor to The Eagle Lock Company, Terryville, Conn. Luggage latch. 2,311,298; Feb. 16.
Marshall, William L. (See Efird, C. C., and Marshall.)
Martin, Glenn L., Company, The. (See Miller, Leslie T., assignor.)
Martin, Glenn L., Company, The. (See O'Neal, W. B., and Zimmerman, assignors.)
Martin, Henry, Basel, H. H. Zaeslin, Riehen, near Basel, R. Hirt, C. Glatthaar, and A. Staub, assignors to J. R. Geigy A. G., Basel, Switzerland. Halogen substituted acylamino sulphonic acids. 2,311,062; Feb. 16.
Martin, Hubert L., Cincinnati, Ohio. Shore jack. 2,311,063; Feb. 16.
Martin, John T., Elizabeth, N. J. Anchoring suspension bridge cable strands. 2,311,241; Feb. 16.
Martin, Perry S., Harrisonburg, Va. Thermostatic draft regulator and system. 2,311,408; Feb. 16.
Masemore, F. N. (See Mitchell, Wiley B., assignor.)
Mason, William S., Norfolk, Va. Piston ring. 2,311,557; Feb. 16.
Mason, William S., Norfolk, Va. Piston ring. 2,311,558; Feb. 16.
Mason, William S., Norfolk, Va. Piston ring. 2,311,559; Feb. 16.
Masteller, Malcolm L., Miami, Fla. Hydraulic brake. 2,310,976; Feb. 16.
Mathys, Max A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Machine tool. 2,310,977; Feb. 16.
Matthews, Edward I., A. C. Cherksey, and A. Scheinfeld, assignors to Electric Heating Equipment Company, Philadelphia, Pa. Circuit control system. 2,311,118; Feb. 16.
Maurer, Gottfried, Zurich, assignor to A. Müller & Cie., Maschinenfabrik und Eisengiesserei, Aktiengesellschaft, Brugg, Switzerland. Mortising machine. 2,311,451; Feb. 16.
Maurer, Gottfried, Zurich, assignor to A. Müller & Cie., Maschinenfabrik und Eisengiesserei, Aktiengesellschaft, Brugg, Switzerland. Charging device. 2,311,452; Feb. 16.
Mauro, Oswald G. (See Dons, E. M., and Mauro.)
Maxwell, Robert W. (See Burke, W. J., Maxwell, and Pinkney.)
McCrary, Pierce R., Washington, D. C., assignor to McCrary Engineering Company, Inc. Gyroscopic internal combustion engine. 2,311,064; Feb. 16.
McCrary Engineering Company. (See McCrary, Pierce R., assignor.)
McFalls, Richard J., and R. Herrington, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Sewing machine attachment. 2,311,407; Feb. 16.
McGill, Chester T., and O. F. Dubruiel, assignors to Elgin Softener Corporation, Elgin, Ill. Automatic valve operating mechanism. 2,310,978; Feb. 16.
McGlohn, Francis W. (See Van Horn, O. F., Kinney, and McGlohn.)
McKeown, John L., Winnetka, Ill. Game. 2,311,453; Feb. 16.
McNally, James G. (See Dickey, J. B., and McNally.)
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Amino anthraquinones. 2,311,065; Feb. 16.
McNulty, George M. (See Zimmer, J. C., and McNulty.)
McQueen, David M. (See Dorough, G. L., and McQueen.)
Mead, Milton S., Jr. (Mansfield, A. P., La Pierre, Janssen, and Mead, Jr.)
Mercer, William M., Avenal, Calif. Gasoline and oil vapor pressure controller. 2,310,979; Feb. 16.
Merrill, Frank W., Fort Wayne, Ind., assignor to General Electric Company. Speed governor. 2,311,409; Feb. 16.
Meschter, Emery, Milltown, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Reducing bath for color photography and using the same. 2,310,980; Feb. 16.
Meschter, Emery, Milltown, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, wilmington, Del. Reversal process of color photography. 2,310,981; Feb. 16.
Meschter, Emery, Milltown, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic reversal process of producing dye images without reexposure. 2,310,982; Feb. 16.
Meyer, Engelbert A., assignor to General Motors Corporation, Detroit, Mich. Molding retaining clip. 2,311,410; Feb. 16.
Meyers, Roy L., Janesville, Wis. Separator disk scrubbing machine. 2,311,066; Feb. 16.
Johansen, Harry C., Michigan City, Ind., assignor to Sullivan Machinery Company. Chuck mechanism. 2,310,960; Feb. 16.
Johnson, Arthur A., assignor to Casco Products Corporation, Bridgeport, Conn. Automobile accessory. 2,311,395; Feb. 16.
Michael, Rudolph D., Blacksburg, Va. Boundary line marker for grass badminton courts. 2,311,243; Feb. 16.
Michaels, Frank L., Fort Thomas, Ky. Parking meter. 2,311,242; Feb. 16.
Michelsen, William O. (See Handley, G. F., and Michelsen.)
Michigan Patents Corporation. (See Main, D. W., and Hirsch, assignors.)
Mid-Continent Petroleum Corporation. (See Dons, E. M., and Mauro, assignors.)
Miedel, Hermann. (See Jaenicke, J., Knoop, Miedel, and Schweitzer.)
Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Saturated and unsaturated 17-hydroxy-androstanes, their derivatives and substitution products, and making same. 2,311,067; Feb. 16.
Mighton, Charles J. (See Jacobson, R. A., and Mighton.)
Millar, John R., Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich. Upholstery material. 2,311,068; Feb. 16.
Millard, Jack S., San Antonio, Tex. Coin changing device. 2,311,560; Feb. 16.
Miller, John A., De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Heated mold form. 2,311,561; Feb. 16.
Miller, Leslie T., Stoneleigh, assignor to The Glenn L. Martin Company, Baltimore, Md. Lubricating system. 2,311,069; Feb. 16.
Miller, Lester A., and C. C. Foil, Pittsfield, Mass. Knitting machine. 2,311,119; Feb. 16.
Miller Printing Machinery Co. (See Robinhon, Willis A., assignor.)
Miller, Samuel C., New York, N. Y. Electrode for luminous tubes and producing the same. 2,310,983; Feb. 16.
Mills Novelty Company. (See Smith, J. T., and Reiter, assignors.)
Minnesota Mining & Manufacturing Company. (See Carlton, R. P., and Oakes, assignors.)
Minnesota Mining & Manufacturing Company. (See Livermore, Harvey J., assignor.)
Minnesota Mining & Manufacturing Company. (See Livermore, H. J., Lindner, and Stephens, assignors.)
Mitchell, Wiley B., assignor of thirty per cent to F. N. Masemore, Wichita, Kans. Metal corner bead for dry wall construction. 2,311,345; Feb. 16.
Mixer, Harold P., Rockville Centre, assignor to Remington Rand Inc., Buffalo, N. Y. Accounting machine. 2,311,454; Feb. 16.
Mock, Frank C., and E. J. Partington, assignors to Bendix Aviation Corporation, South Bend, Ind. Charge forming device. 2,310,984; Feb. 16.
Mock-Up Incorporated. (See Hutchison, Miller R., assignor.)
Monarch Machine Tool Co., The. (See Bickel, Clifford A., assignor.)
Moore, Daniel G., Brooklyn, assignor to W. B. Kapper, New York, N. Y. Motion picture and sound projector. 2,310,985; Feb. 16.
Morando, Emanuel R., New York, N. Y. Lifesaving fire escape apparatus. 2,311,070; Feb. 16.
Morgan Construction Company. (See O'Malley, Joseph M., assignor.)
Mossinghoff, Bernard H., Chicago, Ill. Brake operator. 2,311,120; Feb. 16.
Moyer, Harold J., Summit, N. J., assignor to Standard Oil Development Company. Refining of mineral oils. 2,311,562; Feb. 16.
Muehter, Manfred W., Nutley, assignor to American District Telegraph Company, Jersey City, N. J. Transmitter. 2,311,455; Feb. 16.
Mueller, John, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y. Paper feed mechanism. 2,311,456; Feb. 16.
Muhr, John, Osborn, Ohio. Radiator protector. 2,311,457; Feb. 16.
Müller, A., & Cie, Maschinenfabrik und Eisengiesserei Aktiengesellschaft. (See Maurer, Gottfried, assignor.)

Mullins Manufacturing Corporation. (See Stanitz, Jacques, assignor.)
Mumma, Harold J., Glendale, and Z. Leonard, Burbank, Calif. Fruit marking machine. 2,311,563; Feb. 16.
Munday, John C., Cranford, N. J., assignor to Standard Oil Development Company. Handling finely divided materials. 2,311,564; Feb. 16.
Munn, Adolph T., Pageland, S. C. Sandpapering machine. 2,311,346; Feb. 16.
Murphree, Eger V. (See Tyson, C. W., Murphree, and Fischer.)
Murphy, Edward B., Linden, N. J., assignor to Wilson-Jones Company, Chicago, Ill. Loose-leaf binder. 2,311,620; Feb. 16.
Murphy, John F., Fitchburg, assignor to Lever Brothers Company, Cambridge, Mass. Hydrolysis of fats and oils. 2,310,986; Feb. 16.
Murray, Alexander, assignor to Eastman Kodak Company, Rochester, N. Y. Halftone screen. 2,311,071; Feb. 16.
Murray Corporation of America, The. (See Widman, C. H., and Clark, assignors.)
Murtagh, Hugh, Laleham-on-Thames, England, assignor to Sperry Gyroscope Company, Incorporated. Range finder, height finder, and the like. 2,311,187; Feb. 16.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Chlorination of chromium bearing materials. 2,311,458; Feb. 16.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Chlorination of chromium bearing materials. 2,311,459; Feb. 16.
Musson, William N., Carneys Point, N. J. Safety match pack. 2,311,072; Feb. 16.
Nadeau, Gale F., and A. D. Slack, assignors to Eastman Kodak Company, Rochester, N. Y. Antihalation film. 2,311,073; Feb. 16.
Naftali, Valentine, Pelham Manor, N. Y. Necktie. 2,311,460; Feb. 16.
Nash-Kelvinator Corporation. (See Goulooze, Martin J., assignor.)
Nash-Kelvinator Corporation. (See Phelps, Ross H., assignor.)
Nash-Kelvinator Corporation. (See Wahlberg, Nils E., assignor.)
National Automotive Fibres, Inc. (See Millar, John R., assignor.)
National Blank Book Company. (See Schade, John, assignor.)
National Fitch Corporation. (See Fitch, B. F., and Norbom, assignors.)
National Oil Products Company. (See Buxton, L. O., and Lipsius, assignors.)
National Oil Products Company. (See Lipsius, Sol T., assignor.)
National Rubber Machinery Company. (See Shook, Florain J., assignor.)
National Standard Company. (See Pierce, Robert C., assignor.)
Nave, Alfred E., Newburgh, Ind., assignor to Servell, Inc., New York, N. Y. Refrigerator shelf. 2,311,411; Feb. 16.
Neal, Frank O., Jr., Dallas, Tex., assignor to General Electric Company. Control apparatus. 2,311,462; Feb. 16.
Nelson, Talbert G., New York, N. Y. Fruit dejuicing apparatus. 2,311,565; Feb. 16.
Nest, Richard E., assignor to C. W. Schaefer, doing business as General Oil Burner Company, Baltimore, Md. Pump structure for oil burners. 2,311,461; Feb. 16.
Nette, Henry C., Rutherford, and M. L. Taylor, West Englewood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Windshield wiper drive. 2,311,121; Feb. 16.
Newcomb, William, Brooklyn, N. Y. Steam engine. 2,311,074; Feb. 16.
Newmark, Herbert J. (See Hapanowicz, Charles, assignor.)
Newton, Lowell R., assignor to Industrial Patents Corporation, Chicago, Ill. Banding machine. 2,311,610; Feb. 16.
Newton, Sidney H., and B. T. Griner, Savannah, Ga. Chair attachment. 2,311,566; Feb. 16.
Nichols, Beverly R. (See Ring, J. J., and Nichols.)
Nicholson, Madison G. (See Marden, J. W. and Nicholson, Jr.)
Nied, Herman F., Camden, N. J. Combined adjustable resistance device and switch unit. 2,311,611; Feb. 16.
Niesner, Charles J., Dawson, N. Dak. Window ventilator. 2,311,122; Feb. 16.
Noderer, Roy H., Johnstown, and L. R. Walker, Homstead, Pa. Grinding balls and making the same. 2,310,987; Feb. 16.
Norbom, Ragnar A. (See Fitch, B. F., and Norbom.)
North American Manufacturing Company, The. (See Lutherer, Otto, assignor.)
Norton Company. (See Indge, Herbert S., assignor.)
Novak, Izador J., Trumbull, assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Making friction material. 2,311,244; Feb. 16.
Nowak, Leon J., Jr., Chicago, Ill. Material handling and weighing machine. 2,310,988; Feb. 16.
Nystrom, Karl F., Milwaukee, Wis. Railway car structure. 2,311,188; Feb. 16.
Oakes, Byron J. (See Carlton, R. P., and Oakes.)
Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Rubber doorstop. 2,311,595; Feb. 16.
Oelkers, Alfred H., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,310,989; Feb. 16.
Oelkers, Alfred H., New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,311,313; Feb. 16.
Oldham, Fred A. M., assignor of one-third to A. S. Cheston, one-third to E. C. Edmonds, and one-third to B. Cheston, Birmingham, England. Glazing windows. 2,311,077; Feb. 16.
Oliver United Filters Incorporated. (See Herbert, Elmer H., assignor.)
Olsen, John F. (See Rees, S. E., Radack, Olsen, and Elliott.)
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Screw element and washer assembly. 2,311,299; Feb. 16.
O'Malley, Joseph M., assignor to Morgan Construction Company, Worcester, Mass. Rolling mill. 2,311,075; Feb. 16.
O'Neal, William B., and W. P. Zimmerman, assignors to The Glenn L. Martin Company, Baltimore, Md. Measurement apparatus. 2,311,076; Feb. 16.
Örström, Gustaf, Alsten, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Device for distributing portions of pulverous, granular, or other material. 2,311,347; Feb. 16.
Osborne, Thomas V., Greensboro, N. C. Toy trailer truck. 2,311,123; Feb. 16.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 2,310,990; Feb. 16.
Otto, Michael, Oppau, H. Gueterbock, Ludwigshafen-on-the-Rhine, and A. Hellemanns, Oppau, Germany, assignors, by mesne assignments, to Jasco, Incorporated. Carrying out polymerizations. 2,311,567; Feb. 16.
Owens-Corning Fiberglas Corporation. (See Slayter, Games, assignor.)
Pacific Coast Borax Company. (See Dudley, William A., assignor.)
Page, John W., Chicago, Ill. Bucket tooth. 2,311,463; Feb. 16.
Pankonin, William G., Chicago, Ill. Feed mechanism for stapling machines. 2,311,412; Feb. 16.
Parker, Arthur L., Cleveland, Ohio. Engine primer. 2,311,078; Feb. 16.
Parker, Arthur L., Cleveland, Ohio. Valve assembly. 2,311,464; Feb. 16.
Parker, Arthur L., Cleveland, Ohio. Valve assembly. 2,311,465; Feb. 16.
Parkinson, Roy W., assignor to F. C. Smith, Buffalo, N. Y. Ash receptacle. 2,311,568; Feb. 16.
Parks, Walter J., Shaker Heights, Ohio. Screening apparatus. 2,311,279; Feb. 16.
Parr, Josephus O., Jr., assignor to O. S. Petty, San Antonio, Tex. Transducer. 2,311,079; Feb. 16.
Partington, Edward J. (See Mock, F. C., and Partington.)
Paschke, Erich, Berlin-Neukoelin, Germany; vested in the Alien Property Custodian. Wave band switching. 2,311,124; Feb. 16.
Patch, Allen J., Ripon, Wis. Ironing machine. 2,311,569; Feb. 16.
Pearl, Henry J., assignor of one-half to H. L. Barker, Los Angeles, Calif. Dress. 2,311,246; Feb. 16.
Pearl, John, Detroit, Mich. Stretching device. 2,311,245; Feb. 16.
Pease, Fred F. (See Bodman, J. W., and Pease.)
Pechukas, Alphonse, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Chlorination of metal bearing materials. 2,311,466; Feb. 16.
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Pennsylvania Wire Glass Company. (See Sherwood, Laurence T., assignor.)
Perkins, Myrle M. (See Wickham, H. P., and Perkins.)
Persson, Eric S., Malmo, Sweden. Screen for windows. 2,311,413; Feb. 16.
Peters, Raphael C., New York, and R. Santone, Larchmont, N. Y. Black-out device. 2,311,348; Feb. 16.
Peterson, Frank C., Oakland, Calif. Apparatus for concentration of minerals and like materials. 2,311,414; Feb. 16.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Radio relaying system. 2,311,467; Feb. 16.
Peterson, Merlin D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of benzene. 2,311,189; Feb. 16.
Petty, Olive S. (See Parr, Josephus O., Jr., assignor.)
Pfauser, Edward M., Elm Grove, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Hydraulic pump assemblage. 2,311,468; Feb. 16.
Phelps, Ross H., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Steering knuckle. 2,311,125; Feb. 16.
Phillips Petroleum Company. (See Carney, Samuel C., assignor.)
Pierce, Robert C., assignor to National Standard Company, Niles, Mich. Annealing apparatus. 2,310,991; Feb. 16.

Piggott, Henry A. (See Greenhalgh, R., and Piggott.)
Pines, Herman. (See Ipatieff, V., and Pines.)
Pinkney, Paul S. (See Burke, W. J., Maxwell and Pinkney.)
Pinkney, Paul S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile treatment. 2,311,080; Feb. 16.
Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Blade mounting for rotary wing aircraft. 2,311,247; Feb. 16.
Pittsburgh Plate Glass Company. (See Muskat, Irving E., assignor.)
Pittsburgh Plate Glass Company. (See Pechukas, Alphonse, assignor.)
Pleiss, Walter H., Ludington, Mich. Ironing board 2,311,612; Feb. 16.
Pneumatic Scale Corporation. (See Anderson, Gustaf W., assignor.)
Pohl, Ernest F. (See Ekstedt, Henry V., assignor.)
Poppe, George W., Brooklyn, assignor to Equitable Paper Bag Co. Inc., Long Island City, N. Y. Multiply siftproof bag. 2,311,248; Feb. 16.
Porter, Henry D., and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Iminopyrazolone coupler for color photography. 2,311,081; Feb. 16.
Porter, Henry D., and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Pyrazolone coupler for color photography. 2,311,082; Feb. 16.
Powell, George M., III, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Composition of mixtures of vinyl and acrylate resins. 2,311,249; Feb. 16.
Pressley, Jackson H., Marion, Ind., assignor to Farnsworth Television and Radio Corporation. Automatic record changing apparatus. 2,311,596; Feb. 16.
Presstite Engineering Company, The. (See Ferguson, W. C., and Sussenbach, assignors.)
Process Management Company. (See Atwell, Harold V., assignor.)
Procter & Gamble Company, The. (See Tucker, Nathaniel B., assignor.)
Production Devices Incorporated. (See Garrigus, C. G., and Cross, assignors.)
Proksa, John R., Chicago, Ill. Boring device. 2,310,992; Feb. 16.
Prosperity Company, The. (See Wiegman, F. A., and Young, assignors.)
Pruitt, Ralph S., Anderson, S. C. Liquid fuel burner. 2,311,469; Feb. 16.
Prutton, Carl F., Cleveland Heights, assignor, by mesne assignments, to Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricant. 2,310,993; Feb. 16.
Puening, Franz, New York, N. Y. Coke oven with movable walls. 2,311,349; Feb. 16.
Puerner, George O. (See Zimmerman, H. M., and Puerner.)
Purolator Products, Inc. (See Williams, Lewis W., assignor.)
Pyle, Percival R. C., Warmley, near Bristol, and N. C. Sheppard, Fishponds, Bristal, assignors to Magnal Products Limited, Warmley, near Bristol, England. Flux for magnesium and magnesium alloys. 2,311,126; Feb. 16.
Pyle, Richard M., Dallas, Tex. Stove. 2,311,570; Feb. 16.
Quayle, George, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Reversible pallet. 2,311,280; Feb. 16.
Rabinowicz, Mechel, assignor of one-half to I. X. Kestenbaum, London, England. Gas burner. 2,311,127; Feb. 16.
Racklyeft, John W., assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Ironing machine. 2,311,250; Feb. 16.
Radack, Henry E. (See Rees, S. E., Radack, Olsen, and Elliott.)
Rader, Harvey S., Palmerton, Pa. Treating copper. 2,311,083; Feb. 16.
Radio Corporation of America. (See Belar, Herbert, assignor.)
Radio Corporation of America. (See Conron, W. H., and Suckle, assignors.)
Radio Corporation of America. (See Dimmick, Glenn L., assignor.)
Radio Corporation of America. (See Hasbrouck, Harold J., Jr., assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Kerr, Maxwell A., assignor.)
Radio Corporation of America. (See La Chicotte, Walter B., Jr., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Turner, Alfred H., assignor.)
Radio Corporation of America. (See Underhill, Joseph L., assignor.)
Radio Corporation of America. (See Wein, John F., assignor.)
Ramsey Accessories Manufacturing Corporation. (See Marien, Charles A. and M. W., assignors.)
Ranney, Percival K., Lakewood, Ohio. Transformer. 2,311,128; Feb. 16.
Ravnsbeck, Fred, assignor to Ace Engineering Co., Chicago, Ill. Oil burner. 2,311,571; Feb. 16.
Raybestos-Manhattan, Inc. (See Novak, Izador J., assignor.)
Raybon, Sidney C., Dawson, Ga. Engine. 2,311,254; Feb. 16.
Read, Arthur, Portland, Oreg. Self-attaching pouring spout for receptacles. 2,311,255; Feb. 16.
Redler, Arnold, Stroud, England, assignor to Redler Conveyor Company, Quincy, Mass. Elevator. 2,311,084; Feb. 16.
Redler Conveyor Company. (See Redler, Arnold, assignor.)
Reed Roller Bit Company. (See Rees, S. E., Radack, Olsen, and Elliott, assignors.)
Rees, Shropshire E., H. E. Radack, J. F. Olsen, and C. H. Elliott, assignors to Reed Roller Bit Company, Houston, Tex. Ball-bearing injector. 2,311,251; Feb. 16.
Reichert, Joseph S., and A. A. Elston, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of water. 2,311,314; Feb. 16.
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Vehicle undercarriage and brake operating mechanism. 2,311,252; Feb. 16.
Reiter, Alexander L. (See Smith, J. T., and Reiter.)
Remington Rand Inc. (See Mixer, Harold P., assignor.)
Remington Rand Inc. (See Mueller, John, assignor.)
Remington Rand Inc. (See Ritzert, Robert W., assignor.)
Renfrew, Malcolm M. (See Macht, M. L., and Renfrew.)
Renno, Donald G., New Haven, Ind., assignor to International Harvester Company. Vehicle body construction. 2,311,129; Feb. 16.
Resinous Products & Chemical Company. (See Bruson, Herman A., assignor.)
Reynolds, Albert H., Berwyn, assignor to Dearborn Chemical Company, Chicago, Ill. Material for wrapping pipes and for covering metallic surfaces. 2,311,572; Feb. 16.
Reynolds Metals Company. (See Sunderhauf, F. A., and Broderick, assignors.)
Richards, Edward A., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Battery charging equipment. 2,311,574; Feb. 16.
Richardson Company, The. (See Dillehay, Edward R., assignor.)
Richardson, Edward A., Bethlehem, Pa. Method and apparatus for controlling combustion. 2,311,350; Feb. 16.
Ring, Joseph J., Wauwatosa, and B. R. Nichols, Elm Grove, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Governing system. 2,310,994; Feb. 16.
Rinnman, Harry, St. Charles, assignor to Lindsay Light & Chemical Company, West Chicago, Ill. Mantle support. 2,311,253; Feb. 16.
Ritchey, Harold W., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Producing lubricating material. 2,311,305; Feb. 16.
Ritchey, Harold W., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Phosphonic acids. 2,311,306; Feb. 16.
Ritter, Adolph P., Chicago, Ill. Flexible panel, door, or closure. 2,311,470; Feb. 16.
Ritzert, Robert W., Brooklyn, assignor to Remington Rand Inc., Buffalo, N. Y. Printing interpreter. 2,311,471; Feb. 16.
Robinson, Joseph, Chicago, Ill. Winder implement. 2,311,575; Feb. 16.
Robinson, Willis A., Sr., Chattanooga, Tenn., assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Sheet handling mechanism. 2,310,995; Feb. 16.
Roblin, Richard O., Jr., Stamford, and I. Hechenbleikner, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing disubstituted cyanamides. 2,311,281; Feb. 16.
Roblin, Richard O., Jr., and I. Hechenbleikner, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Nitrated bornyl phenols and preparing the same. 2,311,282; Feb. 16.
Roblin, Richard O., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Dinitro alkyl phenols and preparing the same. 2,311,283; Feb. 16.
Rochester Button Company. (See Gertzog, Irving and Louis, assignors.)
Rochester Manufacturing Co. (See Hastings, Clark L., assignor.)
Rockwell, Edward A., Forest Hills, N. Y., assignor to General Auto Parts Corporation. Booster system. 2,311,576; Feb. 16.
Roko Corporation. (See Coberly, Clarence J., assignor.)
Rollo Razor Limited. (See Law, Edgar H., assignor.)
Roosenstein, Hans O., Berlin, Germany; vested in the Alien Property Custodian. Antenna. 2,311,472; Feb. 16.

Rose, Alfred G., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Mechanism for delivering articles from machines. 2,311,577; Feb. 16.
Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)
Rose, William H., Jersey City, N. J., assignor to Stanco Incorporated. Fluid container. 2,311,578; Feb. 16.
Rosenberg, Philip, New York, N. Y. Revolving bin. 2,311,130; Feb. 16.
Rouat, Roger, Sanvic, Le Havre, France; vested in the Alien Property Custodian. Electric bath. 2,311,415; Feb. 16.
Royal Typewriter Company. (See Handley, G. F., and Michelsen, assignors.)
Royer, William R., Wilkes-Barre, Pa. Tire chain and its application. 2,311,621; Feb. 16.
Rubatex Products, Inc. (See Bascom, Roger C., assignor.)
Rudolph, Charles W., Chicago, Ill., assignor to Diamond Iron Works, Incorporated, Minneapolis, Minn. Controlling movement of trucks into and from heated chambers of furnaces. 2,311,131; Feb. 16.
Rudolph, John W., St. Louis, Mo. Folding machine. 2,311,085; Feb. 16.
Rundell, Rupert E., Rockville, Centre, N. Y., assignor to American Machine & Foundry Company. Pin holder for bowling pin setters. 2,310,996; Feb. 16.
Ruthruff, Robert F., Nutley, N. J. Thermal treatment of drying oils. 2,310,997; Feb. 16.
Safety Car Heating and Lighting Company, The. (See Kennedy, John J., assignor.)
Salb, Oscar G., Indianapolis, Ind., and R. E. Sturm, Milton, Wis. Pickup for detecting and translating vibrations. 2,311,416; Feb. 16.
Salo, Martin, assignor to Eastman Kodak Company, Rochester, N. Y. Preparing photographic products from compositions containing far-hydrolyzed cellulose esters. 2,311,086; Feb. 16.
Sandell, Bror H. R., Amal, Sweden. Electrically heated stove and the like. 2,311,087; Feb. 16.
Sandholt, Hans, Ullevaal Haveby, near Oslo, Norway; vested in the Alien Property Custodian. Scythe. 2,311,417; Feb. 16.
Santone, Renato. (See Peters, R. C., and Santone.)
Sark, Ward T., Oak Park, assignor to Haggard and Marcusson Co., Chicago, Ill. Spring construction. 2,311,256; Feb. 16.
Sawyer, Charles B., Cleveland Heights, and B. Kjellgren, Rocky River, assignor to The Brush Beryllium Company, Cleveland, Ohio. Electrolytic beryllium and process. 2,311,257; Feb. 16.
Sawyer, Edward E., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, trustee. Sound record and making the same. 2,310,998; Feb. 16.
Scafe, Eugene T. (See Kalichevsky, V. A., Scafe, and Hayden.)
Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. 2,311,091; Feb. 16.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. 2,311,088; Feb. 16.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Ring binder construction. 2,311,089; Feb. 16.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf book construction. 2,311,090; Feb. 16.
Schaefer, Claude W. (See Nest, Richard E., assignor.)
Scheinfeld, Abraham. (See Matthews, E. I., Cherksey, and Scheinfeld.)
Schering Corporation. (See Helferich, B., and Günther, assignors.)
Schering Corporation. (See Serini, A., and Steinruck, assignors.)
Schierenbeck, Julius, Heidelberg, Germany; vested in the Alien Property Custodian. Indicating liquid levels. 2,310,999; Feb. 16.
Schine, Isaac E. (See Steinmetz, S., and Schine.)
Schmeiser, Theodore G., Fresno, Calif. Auxiliary traction wheel. 2,311,475; Feb. 16.
Schmelz, William, Buffalo, N. Y. Auxiliary air supplier for gas engines. 2,311,351; Feb. 16.
Schmitter, Walter P., Wauwatosa, assignor to The Falk Corporation, Milwaukee, Wis. Power transmission. 2,311,597; Feb. 16.
Schnell, William N., Detroit, Mich. Safety door catch. 2,311,132; Feb. 16.
Schuessler, Carl F., Chicago, Ill. Glove. 2,311,133; Feb. 16.
Schultz, Alfred S., and L. Atkin, Bronx, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Maltose and galactose fermentations. 2,311,418; Feb. 16.
Schultz, William O., South Milwaukee, and A. G. Steinmayer, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Repeating cutout construction. 2,311,092; Feb. 16.
Schundler, F. E., & Co. (See Denning, Paul S., assignor.)
Schutt, John W., North Arlington, N. J., assignor to Koppers Company. Continuous recovery of pyridine. 2,311,134; Feb. 16.
Schwartz, Charles, assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Making butter. 2,311,598; Feb. 16.
Schwartz, Charles, assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Manufacture of cultured buttermilk. 2,311,599; Feb. 16.
Schwartzberg, Louis, Chicago, assignor to C. W. Johnson, Glencoe, Ill., as trustee. Shipping container. 2,311,473; Feb. 16.
Schwarz Engineering Company. (See Souther, John G., assignor.)
Schweitzer, Otto. (See Jaenicke, J., Knoop, Miedel, and Schweitzer.)
Scott, Clifton A., assignor to Sun-Ray Heater Company, North Miami Beach, Fla. Solar heater. 2,311,579; Feb. 16.
Scovill Manufacturing Company. (See Spender, Donald L., assignor.)
Seapride Packing Corporation. (See Hutton, William, assignor.)
Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Control apparatus. 2,311,474; Feb. 16.
Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Control equipment for prime mover electric generating plants. 2,311,476; Feb. 16.
Seiler, Ernest L., Stockton, Calif. Rungless ladder. 2,311,352; Feb. 16.
Semerak, William A., Chicago, Ill. Inside micrometer. 2,311,477; Feb. 16.
Serini, Arthur, Berlin, and K. Steinruck, Berlin-Tegel, Germany, assignors to Schering Corporation, Bloomfield, N. J. Rearrangement of iso-dialkylstilbestrols to dialkylstilbestrols. 2,311,093; Feb. 16.
Servel, Inc. (See Backstrom, S. M., and Strandberg, assignors.)
Servel, Inc. (See Nave, Alfred E., assignor.)
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Control structure. 2,311,478; Feb. 16.
Shaw, Wilbur A., Forest Hills, assignor to American Locomotive Company, New York, N. Y. Heat exchanger. 2,311,190; Feb. 16.
Shell Development Company. (See Brower, P. V., and Love, assignors.)
Sheppard, Nelson C. (See Pyle, P. R. C., and Sheppard.)
Sherwood, Laurence T., Connellsville, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Joint structure for corrugated glass sheets. 2,311,191; Feb. 16.
Shoan, Raymond A., assignor to Dearborn Chemical Company, Chicago, Ill. Material for wrapping pipes and for covering metallic surfaces. 2,311,573; Feb. 16.
Shoe Press Corporation. (See Anderson, William S., assignor.)
Shook, Florain J., assignor to National Rubber Machinery Company, Akron, Ohio. Inner tube manufacturing device. 2,311,600; Feb. 16.
Shope, James B., Ranger, Ga. Cultivator. 2,311,353; Feb. 16.
Shugart, Robert B., Orlando, Fla. Molding concrete blocks. 2,311,479; Feb. 16.
Shugart, Robert B., and J. G. Boettcher, Orlando, Fla. Molding machine. 2,311,480; Feb. 16.
Silent Sioux Oil Burner Corporation. (See Grotenhouse, James T., assignor.)
Silverstone, Samuel N., Bridgeport, Conn. Fluid drive. 2,311,580; Feb. 16.
Simmon, Alfred, Long Island City, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. X-ray apparatus. 2,311,581; Feb. 16.
Simoneaux, Harry G. (See Galiano, Julian S., assignor.)
Simpson, Emory G., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Optional safety handle for locks for automobile bodies. 2,311,094; Feb. 16.
Simpson, Howard W., and A. Abgarian, assignors to Detroit Harvester Company, Detroit, Mich. Side mower for tractors. 2,311,095; Feb. 16.
Sinclair, Roy, New York, N. Y. Thread receiver and remover. 2,311,481; Feb. 16.
Singer Manufacturing Company, The. (See Wood, Alfred R., assignor.)
Singer Manufacturing Company, The. (See Zeier, Frederick F., assignor.)
Sjogren, Knut R., Los Angeles, Calif. Collet chuck. 2,311,258; Feb. 16.
Skinner, Emory M. (See Hawks, R. C., and Skinner.)
Slack, Alfred D. (See Nadeau, G. F., and Slack.)
Slaght, William W., Rocky River, assignor to Cleveland Steel Products Corporation, Cleveland, Ohio. Oil burner electrode and mounting means therefor. 2,311,601; Feb. 16.
Slayter, Games, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Transparent composite material. 2,311,613; Feb. 16.
Sloane-Blabon. (See Gans, Fred W., assignor.)
Smidth, F. L., & Co. (See Vogel-Jorgensen, Mikael, assignor.)
Smith, Fred C. (See Parkinson, Roy W., assignor.)
Smith, Harold W., assignor to American Liquid Gas Corporation, Los Angeles, Calif. Gaseous fuel mixer for internal combustion engines. 2,311,315; Feb. 16.

Smith, James T., and A. L. Reiter, assignors to Mills Novelty Company, Chicago, Ill. Ice cream hardening and dispensing cabinet. 2,311,000; Feb. 16.
Smith, John H. (See Bardwell, R. F., and Smith.)
Smith, William I., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Glider structure. 2,311,482; Feb. 16.
Smith, William K., assignor of one-half to H. E. Waite, Pittsburgh, Pa. Pressure knee brace. 2,311,483; Feb. 16.
Snyder, Chester, Yonkers, assignor to Liatex Corporation, New York, N. Y. Plastic material. 2,311,284; Feb. 16.
Societe Genevoise d'Instruments de Physique. (See Turrettini, Fernand, assignor.)
Socony-Vacuum Oil Company. (See Bowers, Donald E., assignor.)
Socony-Vacuum Oil Company. (See Hawks, R. C., and Skinner, assignors.)
Socony-Vacuum Oil Company. (See Kalichevsky, V. A., Scafe, and Hayden, assignors.)
Socony-Vacuum Oil Company. (See Marsh, Hallan N., assignor.)
Souther, John G., Alameda, assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif. Preparing vegetable juices. 2,311,316; Feb. 16.
Spamer, Richard F. (See Farmer, P. M., Evans, and Spamer.)
Sparks, William J. (See Thomas, R. M., and Sparks.)
Spender, Donald L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Atomizer. 2,311,496; Feb. 16.
Sperry Gyroscope Company. (See Hodgman, Frederick S., assignor.)
Sperry Gyroscope Company. (See Murtagh, Hugh, assignor.)
Squibb, E. R., & Sons. (See Lott, William A., assignor.)
Stack, Elmer S., Arlington, Mass. Water heater. 2,311,484; Feb. 16.
Staeger, Rudolf, Ludwigshafen-on-the-Rhine, P. Assman, Berlin, and K. Ehrmann, Mannheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Production of metal carbonyls. 2,311, 307; Feb. 16.
Staff, Charles E., and W. N. Stoops, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Plastic composition. 2,311,259; Feb. 16.
Staff, Charles E., assignor to Carbide and Carbon Chemicals Corporation. Esters of endo-methylene hydrophthalic acids with glycol and polyglycol monoethers. 2,311,260; Feb. 16.
Staff, Charles E., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Esters of endo-methylene hexahydrophthalic acids with higher aliphatic alcohols. 2,311,261; Feb. 16.
Stamm, John J., Chester Heights, Pa., assignor to The Baldwin Locomotive Works. Constant load control for engine generator units. 2,311,285; Feb. 16.
Stanco Incorporated. (See Rose, William H., assignor.)
Standard Alcohol Company. (See Brooks, Benjamin T., assignor.)
Standard Brands Incorporated. (See Schultz, A. S., Atkin and Frey, assignors.)
Standard Catalytic Company. (See Voorhies, Alexis, Jr., assignor.)
Standard Oil Development Company. (See Archibald, F. M., and Harris, assignors.)
Standard Oil Development Company. (See Fulton, Stewart C., assignor.)
Standard Oil Development Company. (See Gleason, Anthony H., assignor.)
Standard Oil Development Company. (See Holtzclaw, J. B., and Clemens, assignors.)
Standard Oil Development Company. (See Kerns, W. J., and Beamer, assignors.)
Standard Oil Development Company. (See Moyer, Harold J., assignor.)
Standard Oil Development Company. (See Munday, John C., assignor.)
Standard Oil Development Company. (See Tyson, C. W., Murphree, and Fischer, assignors.)
Standard Oil Development Company. (See Zimmer, J. C., and McNulty, assignors.)
Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Upper roll snubber for wringers. 2,311,192; Feb. 16.
Staub, Alfred. (See Martin, H., Zaeslin, Hirt, Glatthaar and Staub.)
Steiner, Waldo L. (See Lincoln, B. H., and Steiner.)
Steinmayer, Alwin G. (See Schultz, W. O., and Steinmayer.)
Steinmetz, Samuel, and I. E. Schine, Bridgeport, Conn. Rotary brush. 2,311,135; Feb. 16.
Steinruck, Konrad. (See Serini, A., and Steinruck.)
Stephens, Henry N. (See Livermore, H. J., Lindner and Stephens.)
Sterling Injection Molding, Inc. (See Tegarty, John B., assignor.)
Sterrett, Robert R., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Latex composition. 2,311,136; Feb. 16.
Stewart, Arthur L., assignor to Gleason Works, Rochester, N. Y. Dressing mechanism. 2,311,262; Feb. 16.
Stewart, Gilbert, assignor to Ex-Cell-O Corporation, Detroit, Mich. Dressing device for grinding wheels. 2,311,263; Feb. 16.
Stewart, James A., Scarsdale, assignor to American Can Company, New York, N. Y. Container. 2,311,001; Feb. 16.
Stickless Corporation, The. (See Lichter, Malvin, assignor.)
Stimpson, Walter F., and M. J. Lachance, Louisville, Ky., said Lachance assignor to said Stimpson. Weighing scale. 2,311,264; Feb. 16.
Stoops, William N. (See Staff, C. E., and Stoops.)
Story, Edward B., Bethel Township, Allegheny County, assignor to A. M. Byers Company, Pittsburgh, Pa. Manufacture of wrought iron. 2,311,002; Feb. 16.
Strandberg, Per P. (See Backstrom, S. M., and Strandberg.)
Strawn, Lynn R., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of motor fuel. 2,311,096; Feb. 16.
Strezoff, Bogoia, Minneapolis, Minn. Bracket for grinding wheels. 2,311,582; Feb. 16.
Stumpf, Emil F., Valmeyer, Ill. Twin clutch power take-off drive for tractors. 2,311,265; Feb. 16.
Sturken, Oswald C. H. Closter, N. J., assignor to Corn Products Refining Company, New York, N. Y. Zein compound. 2,311,485; Feb. 16.
Sturm, Ralph E. (See Salb, O. G., and Sturm.)
Sturtevant, B. F., Company. (See Hanson, Milton E., assignor.)
Styrén, Nils O. H., Enkoping, assignor to Aktiebolaget Enköpings Verkstäder, Fanna, Enkoping, Sweden. Conditioning air. 2,311,583; Feb. 16.
Suckle, Benjamin W. (See Conron, W. H., and Suckle.)
Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sunderhauf, Frederick A., Rutherford, N. J., and F. W. Broderick, New Brighton, N. Y., assignors to Reynolds Metals Company, Richmond, Va. Collapsible tamper-proof box and tray, primarily for cigars. 2,311,137; Feb. 16.
Sundholm, Edwin P., Albert City, Iowa. Multijawed chuck-type hydraulic snap-on coupler. 2,311,097; Feb. 16.
Sun-Ray Heater Company. (See Scott, Clifton A., assignor.)
Sussenbach, Paul. (See Ferguson, W. C., and Sussenbach.)
Svendsen, Trygve H., Chicago, Ill. Fuel indicator. 2,311,003; Feb. 16.
Svenska Aktiebolaget Gasaccumulator. (See Astradsson, Per A., assignor.)
Svet, Tony, Cleveland, Ohio. Lawn sprinkler. 2,311,266; Feb. 16.
Swan, Donald R., and J. M. Calhoun, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic film comprising nitrocellulose film base stabilized by a dihydrazide of an aliphatic dicarboxylic acid. 2,311,098; Feb. 16.
Swartz, Carl E., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Conductor. 2,311,138; Feb. 16.
Swearingen, William C., Excelsior Springs, assignor to A. B. Chance Company, Centralia, Mo. Conductor-insulator clamp. 2,311,486; Feb. 16.
Swift, Walter G., Flint, Mich. Expansible piston. 2,311,584; Feb. 16.
Tabern, Donalee L., Lake Bluff, assignor to Abbott Laboratories, North Chicago, Ill. Mercurated alkyl amides of dibasic phenylene acids and homologues thereof. 2,311,267; Feb. 16.
Tainton, Urlyn C., Baltimore, Md. Metal treatment. 2,311,099; Feb. 16.
Tainton, Urlyn C., Baltimore, Md. Electrolytic cleaning of metals. 2,311,139; Feb. 16.
Tannewitz, Carl E., Grand Rapids, Mich. Automatic band saw braking mechanism. 2,311,268; Feb. 16.
Taylor, Myron L. (See Nette, H. C., and Taylor.)
Tegarty, John B., assignor to Sterling Injection Molding, Inc., Buffalo, N. Y. Steering wheel or other articles. 2,311,317; Feb. 16.
Teletype Corporation. (See Levin, Carl A., assignor.)
Ter Horst, William P., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Parasiticide. 2,311,585; Feb. 16.
Ternstedt Manufacturing Company. (See Simpson, Emory G., assignor.)
Texas Company, The. (See Barron, Joseph M., assignor.)
Texas Company, The. (See Strawn, Lynn R., assignor.)
Thomas, Chester A., Crystal Lake, assignor to Babson Bros. Co., Chicago, Ill. Milk cooling and dispensing device. 2,311,602; Feb. 16.
Thomas, Robert E., Stow, assignor to American Anode Inc., Akron, Ohio. Deposition rubber and composition employed therein. 2,311,488; Feb. 16.
Thomas, Robert M., Union, and W. J. Sparks, Cranford, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Corrosion proof liner. 2,311,004; Feb. 16.
Thomas, Robert M., Union, and W. J. Sparks, Cranford, N. J., assignors to Jasco, Incorporated. Corrosion proof liner. 2,311,308; Feb. 16.

Thompson, Godfrey E. (See Brown, H. S., and Thompson.)
Thornquist, Clifford C., Grand Rapids, Mich. Tent pole. 2,311,355; Feb. 16.
Thumm, Wilhelm. (See Barwasser, J., and Thumm.)
Thurlow, Thomas L., and S. M. Burka, Dayton, Ohio. Navigation computer. 2,311,005; Feb. 16.
Timken Roller Bearing Company, The. (See Boden, Ernest G., assignor.)
Titanium Alloy Manufacturing Company, The. (See Laughlin, Charles C., assignor.)
Tokheim Oil Tank and Pump Company. (See Eilers, F. B., and Graef, assignors.)
Toland, William C., trustee. (See Toland, W. C., and Bassist, assignors.)
Toland, William C., and E. Bassist, Brookline, Mass., assignors to W. C. Toland, trustee. Making sheet material. 2,311,489; Feb. 16.
Tooke, Roy P. (See Gordon, R. H., and Tooke.)
Totzek, Friedrich, and J. Daniels, Essen, Germany, assignors, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Manufacture of producer gas. 2,311,140; Feb. 16.
Townsend ,Samuel A. Jr., Webster Groves, Mo. Stoker. 2,311,100; Feb. 16.
Transportation Specialties Company. (See Johnston, Charles S., assignor.)
Trbojevich, Nikola, Toledo, Ohio. Spiral gearing and gear teeth. 2,311,006; Feb. 16.
Trexler, Richard R., Evanston, Ill. Liquid dispensing apparatus. 2,311,007; Feb. 16.
Tropic-Aire, Incorporated. (See Will, Carl H., assignor.)
True, Harry A., assignor to Board of Trustees of College of Physicians and Surgeons, San Francisco, Calif. Dental separator. 2,311,141; Feb. 16.
Tucker, Nathaniel B., Glendale, assignor to The Proctor & Gamble Company, Ivorydale, Ohio. Process and composition for softening hard water. 2,311,008; Feb. 16.
Tufts, Robert B., Atlanta, Ga. Pavement joint. 2,311,286; Feb. 16.
Turner, Alfred H., Collingswood, N. J., assignor to Radio Corporation of America. Radio-acoustic apparatus. 2,311,491; Feb. 16.
Turpan, James, Paterson, N .J. Trap. 2,311,490; Feb. 16.
Turrettini, Fernand, Bellevue-Geneva, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Precision machine tool. 2,311,142; Feb. 16.
Tuttle, Clifton M., and W. Bornemann, assignors to Eastman Kodak Company, Rochester, N. Y. Densitometer. 2,311,101; Feb. 16.
Tyler, Guy R., Akron, Ohio. Stirrer for food cookers. 2,311,586; Feb. 16.
Tyson, Charles W., and E. V. Murphree, Summit, and G. M. Fischer, Westfield, N. J., assignors to Standard Oil Development Company. Cracking oils. 2,311,318; Feb. 16.
Ulrich, Theodore, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Spring suspension for chasses. 2,311,419; Feb. 16.
Ulrich, Theodore, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle spring suspension system. 2,311,420; Feb. 16.
Ulrich, Theodore, Detroit, Mich., assignor to E. C. Budd Manufacturing Company, Philadelphia, Pa. Spring suspension, especially for vehicles. 2,311,603; Feb. 16.
Underhill, Joseph L., Indianapolis, Ind., assignor to Radio Corporation of America. Control track pickup. 2,311,493; Feb. 16.
Unger, Paul O., Elmhurst, assignor to Wilson-Jones Company, Chicago, Ill. Loose-leaf binder. 2,311,492; Feb. 16.
Union Asbestos & Rubber Company. (See Astley, William F., assignor.)
Union Carbide and Carbon Corporation. (See Geibig, Frank C., assignor.)
Union Oil Company of California. (See Ritchey, Harold W., assignor.)
Union Switch & Signal Company, The. (See Dodd, Arthur E., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
United Air Lines Transport Corporation. (See Huckle, Herbert M., assignor.)
United Shoe Machinery Corporation. (See Coyne, Guy R., assignor.)
United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)
United States Rubber Company. (See Hurt, Victor H., assignor.)
United States Rubber Company. (See Sterrett, Robert R., assignor.)
United States Rubber Company. (See ter Horst, William P., assignor.)
Universal Oil Products Company. (See Ipatieff, V., and Pines, assignors.)
Universal Oil Products Company. (See Watson, Kenneth M., assignor.)
Urquhart, Kenneth M., New York, N. Y. Double seated valve. 2,311,009; Feb. 16.
Vaala, Gordon T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Plasticized polyamide. 2,311,587; Feb. 16.
Van Cleave, Edwin E., Chicago, Ill. Hand wheel. 2,311,269; Feb. 16.
Vanderpoel, Albert G. H., assignor to California Machinery & Supply Co., Ltd., Los Angeles, Calif. Electrical circuit breaker system for ignition systems and the like. 2,311,270; Feb. 16.
Van Horn, Oertel F., New York, N. Y., K. W. Kinney and F. W. McGlohn, Grand Junction, Colo., assignors to Automatic Appliance Corporation, New York, N. Y. Magazine for firearms. 2,311,497; Feb. 16.
Vedovell, Rudolph J., Kenilworth, assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill. Seal. 2,311,494; Feb. 16.
Veenemans, Cornelis F. (See Alink, R. J. H., de Boer, Klaassens and Veenemans.)
Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Mechanical clutch follow-up device. 2,311,010; Feb. 16.
Vickers, Incorporated. (See Vickers, Harry F., assignor.)
Vogel-Jorgensen, Mikael, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Apparatus for forming powdered material into grains. 2,311,319; Feb. 16.
Voorhies, Alexis, Jr., Baton Rouge, La., assignor, by mesne assignments, to Standard Catalytic Company. Aviation fuel. 2,311,498; Feb. 16.
Wahlberg, Nils E., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Torque tube drive. 2,311,143; Feb. 16.
Waite, Howard E. (See Smith, William K., assignor.)
Walker, Lester R. (See Noderer, R. H., and Walker.)
Walling, Frank E., Portland, assignor of one-half to J W. Walling, Amity, Oreg. Janitor's cart. 2,311,422; Feb. 16.
Walling, John W. (See Walling, Frank E., assignor.)
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Weighing and grading apparatus. 2,311,614; Feb. 16.
Ward, John T., Westfield, assignor to Gasoline Products Company, Inc., Newark, N. J. Treating hydrocarbon fluids. 2,311,421; Feb. 16.
Ware Shoals Manufacturing Co. (See Hunt, John O., assignor.)
Ware, Willis C., assignor, by mesne assignments, to Industrial Abrasives, Inc., Chicago, Ill. Adhesive. 2,311,271; Feb. 16.
Ware, Willis C., assignor, by mesne assignments, to Industrial Abrasives, Inc., Chicago, Ill. Adhesives. 2,311,272; Feb. 16.
Washington State Hop Producers, Inc. (See Gordon, J. G., and Lesh, assignors.)
Watson, Kenneth M., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,311,273; Feb. 16.
Wein, John F., Indianapolis, Ind., assignor to Radio Corporation of America. Cam follower. 2,311,423; Feb. 16.
Weissberger, Arnold. (See Porter, H. D., and Weissberger.)
Weller, Elyert J., Jr., Milwaukee, Wis. Vehicle. 2,311,424; Feb. 16.
Werner, Arthur W. (See Evert, C. W., and Werner.)
West, Ruben A., Crossville, Ill., and H. W. Fulkerson, Muskogee, Okla. Top tank control. 2,311,499; Feb. 16.
Westinghouse Electric & Manufacturing Company. (See Bell, M. E., and Berberich, assignors.)
Westinghouse Electric & Manufacturing Company. (See Clifford, David G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hastings, Roger W., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Paul E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marden, J. W., and Nicholson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Alfred, assignor.)
Wettstein, Albert. (See Miescher, K., and Wettstein.)
Wettstein, Albert, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Doubly unsaturated ketones and making same. 2,311,102; Feb. 16.
Weyerts, Walter J., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic silver halide emulsion. 2,311,103; Feb. 16.
Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar machine long-filler feed. 2,311,011; Feb. 16.
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Preparing stiffened fabrics. 2,311,012; Feb. 16.
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Apparatus for preparing stiffened fabrics. 2,311,013; Feb. 16.
Whitney, Kenneth B., Toronto, Ontario, Canada. Foot exercising apparatus. 2,311,274; Feb. 16.
Wickham, Henry P., Glen Head, and M. M. Perkins, Brooklyn, assignors to The M. W. Kellogg Company, New York, N. Y. Apparatus for hydrocarbon alkylation. 2,311,144; Feb. 16.

Widman, Charles H., Detroit, and N. C. Clark, Pleasant Ridge, assignors to The Murray Corporation of America, Detroit, Mich. Seat construction. 2,311,145; Feb. 16.
Wiegman, Clarence H., Williamsport, Pa., assignor, by mesne assignments, to The Aviation Corporation, New York, N. Y. Internal combustion engine for aircraft. 2,311,146; Feb. 16.
Wiegman, Floyd A., and G. R. Young, Chicago, Ill., assignors to The Prosperity Company, Inc., Syracuse, N. Y. Sleeve ironing press. 2,311,275; Feb. 16.
Wilcox, William H., assignor to California Cedar Products Company, Stockton, Calif. Contact glove. 2,311,276; Feb. 16.
Wild, Albert F., Scotia, N. Y., assignor to General Electric Company. Dehydrating compartment. 2,311,425; Feb. 16.
Wildhaber, Ernest, Brighton, and L. O. Carlsen, assignors to Gleason Works, Rochester, N. Y. Dressing mechanism. 2,311,302; Feb. 16.
Wilkie, Leighton A., Libertyville, Ill. Sawing apparatus. 2,311,426; Feb. 16.
Will, Carl H., Winnetka, assignor to Tropic-Aire, Incorporated, Chicago, Ill. Chair or seat structure, and upholstery assembly therefor. 2,311,104; Feb. 16.
Will, Carl H., Winnetka, assignor to Tropic-Aire, Incorporated, Chicago, Ill. Chair or seat structure, and control for seat back-adjusting mechanism thereof. 2,311,105; Feb. 16.
Williams, Helen J., Huntington Park, Calif. Hood. 2,311,277; Feb. 16.
Williams, Lewis W., Short Hills, N. J., assignor to Purolator Products, Inc. Filter. 2,311,320; Feb. 16.
Williamson, Larkin R., assignor to E. W. Bliss Company, Brooklyn, N. Y. Hydraulic hold-down. 2,311,147; Feb. 16.
Wills, Dick. (See Dressler, Adolph C., assignor.)
Willson, David S., Muskegon Heights, Mich., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Interlock mechanism. 2,311,193; Feb. 16.
Wilson, Broadus, Miami, Fla. Article drying apparatus. 2,311,148; Feb. 16.
Wilson, H. A., Company, The. (See Campbell, James R., assignor.)
Wilson-Jones Company. (See Murphy, Edward B., assignor.)
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Winkelmeyer, Robert D., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Grommet. 2,311,427; Feb. 16.
Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-bar vibrating mechanism. 2,311,194; Feb. 16.
Wood, John, Manufacturing Company. (See Willson, David S., assignor.)
Wood, Laurence V., Berkeley, Calif. Game. 2,311,106; Feb. 16.
Wood, William H., Bedford, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Photographic developer. 2,311,428; Feb. 16.
Woolford, Custis S., South Orange, N. J., assignor to American Can Company, New York, N. Y. Sheet treating machine. 2,311,014; Feb. 16.
Worth, Joseph, Flushing, assignor to D. F. H. Novelty Furniture Co., Inc., Brooklyn, N. Y. Auxiliary table top. 2,311,149; Feb. 16.
Wurlitzer, Rudolph, Company, The. (See Miller, John A., assignor.)
Yale & Towne Manufacturing Company, The. (See Quayle, George, assignor.)
Young, Emil O., Cleveland, Ohio. Damper regulator. 2,311,195; Feb. 16.
Young, George R. (See Wiegman, F. A., and Young.)
Young, L. A., Spring & Wire Corporation. (See Hathaway, Hubert B., assignor.)
Young, Richard V., and G. Ehrenfried, assignors to Eastman Kodak Company, Rochester, N. Y. Producing dye images. 2,311,015; Feb. 16.
Zaeslin, Hans H. (See Martin, H., Zaeslin, Hirt, Glatthaar, and Staub.)
Zier, Frederick F., Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating system for sewing machines. 2,311,604; Feb. 16.
Zemba, John W. (See Coleman, G. H., and Zemba.)
Zemba, John W., and G. H. Coleman, assignors to The Dow Chemical Company, Midland, Mich. Making polymers derived from styrene. 2,311,615; Feb. 16.
Zigan, Herman, New York, N. Y. Steering device aid for heavy motor trucks and the like. 2,311,321; Feb. 16.
Zimmer, John C., and G. M. McNulty, Union, N. J., assignors to Standard Oil Development Company. Extreme pressure lubricant. 2,311,500; Feb. 16.
Zimmerman, Henry M., and G. O. Puerner, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Push-button switch assembly. 2,311,322; Feb. 16.
Zimmerman, William P. (See O'Neal, W. B., and Zimmerman.)
Zoldok, Stephen W., San Luis Obispo, Calif. Dump car bottom. 2,311,501; Feb. 16.
Zumbusch, Heinz. (See Buschbeck, W., and Zumbusch.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aluminum, Manufacture of. H. Loevenstein. Re. 22,270; Feb. 16.
Bulkhead for refrigerator cars, Convertible. J. S. Lundvall. Re. 22,271; Feb. 16.
Circuit interrupting and protecting device. F. B. Adam and H. M. Stieglitz. Re. 22,266; Feb. 16.
Isobutylene from hydrocarbon mixtures, Separation of. L. A. Bannon and H. G. Schneider. Re. 22,268; Feb. 16.
Pressure control system for aircraft cabins. N. C. Price. Re. 22,272; Feb. 16.
Torque conveying and converting apparatus. R. B. Aspinwall and T. B. Tyler. Re. 22,267; Feb. 16.
Wood impregnant from high temperature coal tar fractions, Production of. J. E. Harvey, Jr. Re. 22,269; Feb. 16.

LIST OF DESIGN INVENTIONS

Bank, Savings. J. J. Misley. 135,063; Feb. 16.
Belting or the like for personal wear. C. E. Ricketts. 135,071–80; Feb. 16.
Block for electrical connections, Terminal. H. B. Jones. 135,033; Feb. 16.
Bottle and display holder, Combined. A. A. Flaster. 135,028; Feb. 16.
Cabinet, Refrigerated display. C. F. Hoffman. 135,025; Feb. 16.
Camera and grip holder therefor, Combined. R. H. Munson. 135,037; Feb. 16.
Charm or similar article. W. Lampl. 135,050–61; Feb. 16.
Clamp, Jack. R. F. Smith. 135,068; Feb. 16.
Coat, House. W. M. Kittles. 135,036; Feb. 16.
Dish or similar article. A. L. Harshman. 135,030; Feb. 16.
Dress. A. Gershuny. 135,047–8; Feb. 16.
Dress. M. Parnis. 135,066; Feb. 16.
Dress. H. J. Pearl. 135,031; Feb. 16.
Dress. H. H. Stahl. 135,070; Feb. 16.
Dress or similar article. M. M. Breskin. 135,043; Feb. 16.
Fabric or similar article of manufacture, Textile. H. S. Morford. 135,064; Feb. 16.
Fabric, Textile. J. H. Abt. 135,042; Feb. 16.
Finger rest. O. R. White. 135,041; Feb. 16.
Frame or the like, Picture. S. S. Corwin and J. Braun. 135,034; Feb. 16.
Handbag. W. Tashman. 135,027; Feb. 16.
Handle for a safety razor. J. B. Buller. 135,044; Feb. 16.
Hat. A. Rothchild. 135,067; Feb. 16.
Pipe, Tobacco. R. F. Blair. 135,046; Feb. 16.
Poster, Emblematic. P. Merton. 135,062; Feb. 16.
Powder bellows. M. H. Hirschfield. 135,026; Feb. 16.
Ring. B. Pereira. 135,038; Feb. 16.
Ring cigarette holder. G. E. Carson. 135,032; Feb. 16.
Scarf or similar article, Table. R. C. Oppenheim. 135,065; Feb. 16.
Sharpener for razor blades. W. Griffies. 135,029; Feb. 16.
Shingle, Roofing. O. A. Bigler and M. S. Larrison. 135,045; Feb. 16.
Shingle, Roofing. D. B. Humphrey. 135,035; Feb. 16.
Sink, Cabinet. D. E. Anderson. 135,024; Feb. 16.
Toy figure. L. B. Somersett. 135,069; Feb. 16.
Trimming, Embroidered. J. Goldfrank. 135,049; Feb. 16.
Ventilator or the like. R. W. Rowland. 135,039–40; Feb. 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accountant's apparatus. R. Hurup. 2,311,052; Feb. 16.
Accounting machine. H. P. Mixer. 2,311,454; Feb. 16.
Acids, Phosphonic. H. W. Ritchey. 2,311,306; Feb. 16.
Adhesive. W. C. Ware. 2,311,271–2; Feb. 16.
Adhesive composition and articles comprising the same, Water dispersed. H. J. Livermore. 2,311,301; Feb. 16.
Adjustable drapery bracket. R. M. Behrle. 2,310,928; Feb. 16.
Agricultural implement. R. D. MacDonald and S. E. Hilblom. 2,311,117; Feb. 16.
Air, Conditioning. N. O. H. Styrén. 2,311,583; Feb. 16.
Air-flow indicator. D. J. MacKinnon. 2,311,238; Feb. 16.
Air supplier for gas engines, Auxiliary. W. Schmelz. 2,311,351; Feb. 16.
Alcohol, Chlorohydrin of unsaturated. B. T. Brooks. 2,311,023; Feb. 16.
Amides of dibasic phenylene acids and homologues thereof, Mercurated alkyl. D. L. Tabern. 2,311,267; Feb. 16.
Amino anthriquinones. J. G. McNally and J. B. Dickey. 2,311,065; Feb. 16.
Amino compounds, Preparation of. W. O. Kenyon and W. G. Lowe. 2,311,054; Feb. 16.
Annealing apparatus. R. C. Pierce. 2,310,991; Feb. 16.
Antenna. H. O. Roosenstein. 2,311,472; Feb. 16.
Antenna, Broad-band. W. Buschbeck and H. Zumbusch. 2,311,364; Feb. 16.
Antenna, Directive. J. Goldmann. 2,311,535; Feb. 16.
Apparatus and method for molding concrete. R. W. Baily. 2,311,358; Feb. 16.
Apparatus for concentration of minerals and like materials. F. C. Peterson. 2,311,414; Feb. 16.
Apparatus for forming powdered material into grains. M. Vogel-Jorgensen. 2,311,319; Feb. 16.
Apparatus for hydrocarbon alkylation. H. P. Wickham and M. M. Perkins. 2,311,144; Feb. 16.
Apparatus for molding meats. F. H. Hoy. 2,310,958; Feb. 16.
Apparatus for preparing stiffened fabrics. W. Whitehead. 2,311,013; Feb. 16.
Apparatus for the multiple molding of hams and the like. F. H. Hoy. 2,310,956–7; Feb. 16.
Apparatus for treating metal strips. R. H. Gordon and R. P. Tooke. 2,311,616; Feb. 16.
Appliance for working on automobile body panels. W. H. Ferguson. 2,311,041; Feb. 16.
Applicator, Liquid. L. A. Chambers. 2,311,367; Feb. 16.
Aromatic isocyanates, Manufacture of. R. Greenhalgh and H. A. Piggot. 2,311,046; Feb. 16.
Article carrying attachment for crutches. H. G. Hedden. 2,311,049; Feb. 16.
Asbestos insulating unit or yarn. W. F. Astley. 2,311,356; Feb. 16.
Ash receptacle. R. W. Parkinson. 2,311,568; Feb. 16.
Asphalt, Method and apparatus for handling. R. C. Hawks and E. M. Skinner. 2,311,389; Feb. 16.
Assembly machine. S. Goodman. 2,311,536; Feb. 16.
Atomizer. A. H. Bahnson, Jr. 2,311,018; Feb. 16.
Atomizer. D. L. Spender. 2,311,496; Feb. 16.
Automobile accessory. A. A. Johnson. 2,311,395; Feb. 16.
Automobile jack. C. Donges. 2,310,942; Feb. 16.
Auxiliary traction wheel. T. G. Schmeiser. 2,311,475; Feb. 16.
Azo compounds and material colored therewith. J. B. Dickey. 2,311,033; Feb. 16.
Bag: *See*—
Multiply siftproof bag.
Ball-bearing injector. S. E. Rees, H. E. Radack, J. F. Olsen, and C. H. Elliott. 2,311,251; Feb. 16.
Banding machine. L. R. Newton. 2,311,610; Feb. 16.
Bath for color photography and using the same, Reducing. E. Meschter. 2,310,980; Feb. 16.
Battery cases and the like, Preparing storage. E. R. Dillehay. 2,311,524; Feb. 16.
Battery charging equipment. E. A. Richards. 2,311,574; Feb. 16.
Battery, Coke oven. H. Koppers. 2,311,114; Feb. 16.
Bearing: *See*—
Shaft bearing.
Bearing seal. E. G. Boden. 2,311,287; Feb. 16.
Bed. E. D. Holme. 2,311,542; Feb. 16.
Bedrail. V. Giuseffi. 2,311,537; Feb. 16.
Belt clasp. C. E. Anderson. 2,311,429; Feb. 16.
Benzene, Purification of. M. D. Peterson. 2,311,189; Feb. 16.
β-alkyl-cinnamic acid derivatives. W. A. Lott. 2,310,973; Feb. 16.
Biguanids, Preparation of. D. W. Jayne, Jr. 2,311,295; Feb. 16.
Bin, Revolving. P. Rosenberg. 2,311,130; Feb. 16.
Binder, Loose-leaf. E. B. Murphy. 2,311,620; Feb. 16.
Binder, Loose-leaf. J. Schade. 2,311,088; Feb. 16.
Binder, Loose-leaf. F. S. Schade. 2,311,091; Feb. 16.
Binder, Loose-leaf. P. O. Unger. 2,311,492; Feb. 16.
Black-out device. R. C. Peters. 2,311,348; Feb. 16.
Bleeder construction. C. J. Coberly. 2,311,212; Feb. 16.
Blocks, Making refractory insulating. P. S. Denning. 2,311,588; Feb. 16.
Blowpipe machine, Portable. F. C. Geibig. 2,311,223; Feb. 16.
Board: *See*—
Ironing board.
Bobbin brake. I. V. Hitt. 2,311,175; Feb. 16.
Bomb thrower. R. A. Dobbelaar. 2,311,160; Feb. 16.
Book construction, Loose-leaf. J. Schade. 2,311,090; Feb. 16.
Booster system. E. A. Rockwell. 2,311,576; Feb. 16.
Boring device. J. R. Proksa. 2,310,992; Feb. 16.
Bottle cooling and vending means. T. F. Lilly. 2,311,449; Feb. 16.
Box and tray, primarily for cigars, Collapsible tamperproof. F. A. Sunderhauf and F. W. Broderick. 2,311,137; Feb. 16.
Box construction. W. H. Inman. 2,311,053; Feb. 16.
Brace, Pressure knee. W. K. Smith. 2,311,483; Feb. 16.
Bracket: *See*—
Adjustable drapery bracket. Tree bracket.
Bracket for box springs. D. N. Kelly. 2,311,111; Feb. 16.
Bracket for grinding wheels. B. Strezoff. 2,311,582; Feb. 16.
Bracket for highway guards. W. S. Ferguson. 2,311,219; Feb. 16.
Brake: *See*—
Bobbin brake. Hydraulic brake.
Brake. P. M. Freer. 2,311,528–30; Feb. 16.
Brake operating mechanism. A. F. Klasing. 2,311,398; Feb. 16.
Brake operator. B. H. Mossinghoff. 2,311,120; Feb. 16.
Bridge cable strands, Anchoring suspension. J. T. Martin. 2,311,241; Feb. 16.
Brush, Rotary. S. Steinmetz and I. E. Schine. 2,311,135; Feb. 16.
Bucket tooth. J. W. Page. 2,311,463; Feb. 16.
Builder's hardware. E. H. Johnson. 2,311,278; Feb. 16.
Building wall. J. C. Hain. 2,311,170; Feb. 16.
Burner: *See*—
Conversion oil burner. Liquid fuel burner.
Gas burner. Oil burner.
Bus duct. F. B. Adam. 2,310,919; Feb. 16.
Butter, Making. C. Schwartz. 2,311,598; Feb. 16.
Butter slicing and dispensing machine. W. F. Coleman. 2,311,618; Feb. 16.
Buttermilk. Manufacture of cultured. C. Schwartz. 2,311,599; Feb. 16.
Cabinet: *See*—
Ice cream hardening and dispensing cabinet. Refrigerator cabinet.
Cabinet construction. R. W. Hastings. 2,311,540; Feb. 16.
Calculating machine. C. M. Friden and F. C. Carroll Jr. 2,311,354; Feb. 16.
Cam follower. J. F. Wein. 2,311,423; Feb. 16.
Camera and light synchronizer. I. Jacobson. 2,311,440; Feb. 16.
Can double seaming machine. H. L. Guenther. 2,311,538; Feb. 16.
Can testing machine. F. Krueger. 2,311,115; Feb. 16.
Car: *See*—
Push car.
Car trucks. A. H. Oelkers. 2,310,989; Feb. 16.
Car truck. A. H. Oelkers. 2,311,313; Feb. 16.
Carbon black, Agglomerating commercial. S. C. Carney. 2,311,154; Feb. 16.
Cardcase. R. O. H. Hill. 2,311,173; Feb. 16.
Cart, Janitor's. F. E. Walling. 2,311,422; Feb. 16.

Carton. S. Lighter. 2,311,403; Feb. 16.
Case: *See*—
Refrigerator display case. Typewriter case.
Catalysts, Manufacture of. V. Ipatieff and H. Pines. 2,311,323; Feb. 16.
Catalytic alkylation process. S. C. Fulton. 2,311,531; Feb. 16.
Cement mixtures, Increasing the plasticity of Portland. R. B. Booth. 2,311,288–90; Feb. 16.
Centrifugal separator. C. E. Bannister. 2,311,606; Feb. 16.
Ceramic and making same, Bauxite. J. A. Heany. 2,311,228; Feb. 16.
Ceramic from bauxite and making same. J. A. Heany. 2,310,953; Feb. 16.
Chair attachment. S. H. Newton and B. T. Griner. 2,311,566; Feb. 16.
Chair or seat structure, and control for seat back-adjusting mechanism thereof. C. H. Will. 2,311,105; Feb. 16.
Chair or seat structure, and upholstery assembled therefor. C. H. Will. 2,311,104; Feb. 16.
Charge forming device. F. C. Mock and E. J. Partington. 2,310,984; Feb. 16.
Charging device. G. Maurer. 2,311,452; Feb. 16.
Chlorsulphonic acid, Preparation of. N. A. Laury. 2,311,619; Feb. 16.
Chromium bearing materials, Chlorination of. I. E. Muskat. 2,311,458–9; Feb. 16.
Chuck mechanism. H. C. Johansen. 2,310,960; Feb. 16.
Cigar machine long-filler feed. H. H. Wheeler. 2,311,011; Feb. 16.
Cigarette dispenser. C. W. Burger. 2,310,933; Feb. 16.
Circuit: *See*—
Oscillator circuit. Protective circuit.
Circuit breaker equipment, Automatic reclosing. S. B. Crary. 2,311,370; Feb. 16.
Circuit control system. J. C. Hoyt. 2,311,438; Feb. 16.
Circuit control system. E. I. Matthews, A. C. Cherksey, and A. Scheinfeld. 2,311,118; Feb. 16.
Clamp: *See*—
Conductor-insulator clamp. Rope swivel and clamp.
Cleaner: *See*—
Filter bed cleaner.
Cleaning process for urinal metal traps. E. T. Ahern. 2,311,196; Feb. 16.
Cleaning process for urinal traps located below the floor level. E. T. Ahern. 2,311,197; Feb. 16.
Clip: *See*—
Molding retaining clip.
Clutch. W. H. Klocke. 2,311,113; Feb. 16.
Clutch follow-up device, Mechanical. H. F. Vickers. 2,311,010; Feb. 16.
Clutch power take-off drive for tractors, Twin. E. F. Stumpf. 2,311,265; Feb. 16.
Coating composition, Hot-melt. T. A. Kauppi and M. Kin. 2,311,609; Feb. 16.
Coating for piston rings. C. A. and M. W. Marien. 2,311,240; Feb. 16.
Coatings to sheet units, Applying polished. E. Caligari, Jr. 2,311,518; Feb. 16.
Coin changing device. J. S. Millard. 2,311,560; Feb. 16.
Coke oven apparatus. J. Becker. 2,310,924; Feb. 16.
Coke oven with movable walls. F. Puening. 2,311,349; Feb. 16.
Collet chuck. K. R. Sjogren. 2,311,258; Feb. 16.
Coloring materials in water swellable colloids, Dispersing. D. E. Bennett, Jr., and S. S. Fierke. 2,311,020; Feb. 16.
Combustion, Method and apparatus for controlling. E. A. Richardson. 2,311,350; Feb. 16.
Concrete blocks, Molding. R. B. Shugart. 2,311,479; Feb. 16.
Condenser tube protector. T. J. Bay. 2,310,927; Feb. 16.
Conductor. C. E. Swartz. 2,311,138; Feb. 16.
Conductor-insulator clamp. W. C. Swearingen. 2,311,486; Feb. 16.
Connection. J. Dusevoir. 2,311,434; Feb. 16.
Constituents of hydrocarbon liquids, Extracting. E. M. Dons and O. G. Mauro. 2,311,372; Feb. 16.
Contact switch for ball rolling games. J. C. Koci. 2,311,447; Feb. 16.
Container: *See*—
Demountable freight container. Fluid container. Shipping container.
Container. R. C. Carlson. 2,311,291; Feb. 16.
Container. C. W. Evert and A. W. Werner. 2,311,040; Feb. 16.
Container. J. S. French. 2,311,333; Feb. 16.
Container. J. A. Stewart. 2,311,001; Feb. 16.
Containers, Method and apparatus for treating fibrous. H. A. Bergstrom. 2,311,309; Feb. 16.
Continuous mud weight indicator. H. N. Marsh. 2,311,312; Feb. 16.
Contouring machine. D. H. Duffy. 2,311,216; Feb. 16.
Control apparatus. F. C. Neal, Jr. 2,311,462; Feb. 16.
Control apparatus. H. T. Seeley. 2,311,474; Feb. 16.
Control device for sequential operation of service valves. F. Hauser. 2,311,108; Feb. 16.
Control equipment for prime mover electric generating plants. H. T. Seeley. 2,311,476; Feb. 16.
Control for engine generator units, Constant load. J. J. Stamm. 2,311,285; Feb. 16.
Control for washing machines. J. R. Hurley and J. P. Beattie. 2,311,545; Feb. 16.
Control mechanism. J. O. Hunt. 2,311,394; Feb. 16.
Control mechanism for shutters. R. R. Dubour and L. G. Brown. 2,311,300; Feb. 16.
Control mechanism, Hydraulic. T. Brown and F. T. Court. 2,311,516; Feb. 16.
Control structure. B. E. Shaw. 2,311,478; Feb. 16.
Control system. J. L. Barker. 2,311,359–60; Feb. 16.
Control track pickup. J. L. Underhill. 2,311,493; Feb. 16.
Conversion oil burner A. Macchi. 2,311,404; Feb. 16.
Conveyer. M. Adrian. 2,310,920; Feb. 16.
Copolymer of isopropenyl toluene and acrylonitrile and producing same. E. L. Kropa. 2,310,961; Feb. 16.
Copper, Treating. H. S. Rader. 2,311,083; Feb. 16.
Corrosion proof liner. R. M. Thomas and W. J. Sparks. 2,311,004; Feb. 16.
Coupling: *See*—
Self-sealing coupling. Tube coupling.
Coupling loop. D. G. Clifford. 2,311,520; Feb. 16.
Cover: *See*—
Self-adjusting book cover.
Crawler and rail vehicle, Combination. D. W. Lehti and L. H. Crow. 2,311,304; Feb. 16.
Crystal stabilized frequency modulation system. N. Bishop. 2,311,026; Feb. 16.
Cultivator. J. B. Shope. 2,311,353; Feb. 16.
Cutout construction, Repeating. W. O. Schultz and A. G. Steinmayer. 2,311,092; Feb. 16.
Cutting and gauging instrument. A. Krajne. 2,311,234; Feb. 16.
Cyanamides, Preparing disubstituted. R. O. Roblin, Jr., and I. Hechenbleikner. 2,311,281; Feb. 16.
Damper regulator. E. O. Young. 2,311,195; Feb. 16.
Dehydrating compartment. A. F. Wild. 2,311,425; Feb. 16.
Demountable freight container. B. F. Fitch, Z. M. Lane, and R. A. Norbom. 2,310,948; Feb. 16.
Densitometer. C. M. Tuttle and W. Bornemann. 2,311,101; Feb. 16.
Dental separator. H. A. True. 2,311,141; Feb. 16.
Dentures, Making. J. V. Conway and W. P. Crockett. 2,311,158; Feb. 16.
Depilatory abrasive pad. N. M. Lurrain. 2,311,060; Feb. 16.
Device for damping pressure. H. D. Green. 2,311,381; Feb. 16.
Device for distributing portions of pulverous, granular, or other material. G. Orström. 2,311,347; Feb. 16.
Diallyl esters and products thereof, Polymerization of. T. F. Bradley. 2,311,327; Feb. 16.
Dinitro alkyl phenols and preparing the same. R. O. Roblin, Jr. 2,311,283; Feb. 16.
Dispenser: *See*—
Cigarette dispenser. Soap dispenser.
Dispenser. B. E. Colburn. 2,311,521; Feb. 16.
Display card. V. H. Fandrich. 2,311,218; Feb. 16.
Distillation. M. J. P. Bogart and J. S. F. Carter. 2,311,180; Feb. 16.
Door catch, Safety. W. N. Schnell. 2,311,132; Feb. 16.
Doorstop, Rubber. L. M. Oakley. 2,311,595; Feb. 16.
Double seated valve. K. M. Urquhart. 2,311,009; Jan. 16.
Draining and filling apparatus, Can. W. De Back. 2,310,940; Feb. 16.
Dress. H. J. Pearl. 2,311,246; Feb. 16.
Dressing device for grinding wheels. G. Stewart 2,311,263; Feb. 16.
Dressing mechanism. A. L. Stewart. 2,311,262; Feb. 16
Dressing mechanism. E. Wildhaber and L. O. Carlsen. 2,311,302; Feb. 16.
Drilling apparatus. C. F. Osgood. 2,310,990; Feb. 16.
Drying apparatus, Article. B. Wilson. 2,311,148; Feb. 16.
Dual wheel vehicle. C. S. Ash. 2,310,921; Feb. 16.
Duplex lapping machine. H. S. Indge. 2,311,185; Feb. 16.
Dye images, Producing. R. V. Young and G. Ehrenfries. 2,311,015; Feb. 16.
8-amino-5-hydroxy-2-sulphoethylamine 1,4-naphthoquinone. J. B. Dickey and J. G. McNally. 2,311,032; Feb. 16.
Electric bath. R. Rouat. 2,311,415; Feb. 16.
Electric heater. E. C. Crowley. 2,311,371; Feb. 16.
Electric heating element. J. C. Chaston. 2,311,028; Feb. 16.
Electric piano. W. B. Le Chicotte, Jr. 2,311,399; Feb. 16.
Electric steaming iron. H. V. Ekstedt. 2,311,164; Feb. 16.
Electric switch. M. C. Harrold. 2,311,048; Feb. 16.
Electric thermal switch. W. H. Bulpitt. 2,311,206; Feb. 16.
Electrical circuit breaker system for ignition systems and the like. A. G. H. Vanderpoel. 2,311,270; Feb. 16.
Electrical contacts. C. B. Gwyn, Jr. 2,311,436; Feb. 16.
Electrical relay. R. M. Gilson. 2,311,035; Feb. 16.
Electrical system. J. J. Kennedy. 2,311,340; Feb. 16.

Electrode for luminous tubes and producing the same. S. C. Miller. 2,310,983; Feb. 16.
Electrode holder. P. Bourque. 2,311,022; Feb. 16.
Electrolytic beryllium and process. C. B. Sawyer and B. Kjellgren. 2,311,257; Feb. 16.
Electrolytic cleaning of metals. U. C. Tainton 2,311,139; Feb. 16.
Electrolytic device. J. B. Brennan and L. Marsh. 2,310,932; Feb. 26.
Electron discharge apparatus. G. P. Chevigny. 2,310,936; Feb. 16.
Elevator. A. Redler. 2,311,084; Feb. 16.
Enclosed switch. F. B. Adam. 2,310,918; Feb. 16.
Engine: *See*—
Gyroscopic internal combustion engine. Steam engine.
Internal combustion engine.
Engine. S. C. Raybon. 2,311,254; Feb. 16.
Engine breather and ventilating system. A. C. Dressler. 2,311,036; Feb. 16.
Engine for aircraft, Internal combustion. C. H. Wieg man. 2,311,146; Feb. 16.
Engine mounting and control. P. J. Collins. 2,311,303; Feb. 16.
Engine primer. A. L. Parker. 2,311,078; Feb. 16.
Engine starter gearing. D. P. Kearney. 2,311,297; Feb. 16.
Envelope machine. G. W. Anderson. 2,311,017; Feb. 16.
Esters of endo-methylene hexahydrophthalic acids with higher aliphatic alcohols. C. E. Staff. 2,311,261; Feb. 16.
Esters of endo-methylene hydrophthalic acids with glycol and polyglycol monoethers. C. E. Staff. 2,311,260; Feb. 16.
Extractor: *See*—
Flue heat extractor.
Fabric folding and cutting machine. H. B. Hathaway. 2,311,541; Feb. 16.
Fabrics, Preparing stiffened. W. Whitehead. 2,311,012; Feb. 16.
Fastener: *See*—
Slide fastener.
Fastener for garments and other articles. A. Illsche. 2,311,231; Feb. 16.
Fastening device. C. Hapanowicz. 2,311,592; Feb. 16.
Fastening inserting machines. G. R. Coyne. 2,310,938; Feb. 16.
Fastening means. D. Birkin. 2,311,326; Feb. 16.
Fats and oils, Hydrolysis of. J. F. Murphy. 2,310,986; Feb. 16.
Feed mechanism for stapling machines. W. G. Pankonin. 2,311,412; Feb. 16.
Feed reversing mechanism for sewing machines. J. Hickey. 2,311,184; Feb. 16.
Film, Antihalation. G. F. Nadeau and A. D. Slack. 2,311,073; Feb. 16.
Film transparencies, Storing and projecting. C. Langberg. 2,311,056; Feb. 16.
Film unwinding mechanism. J. J. Hardenberg. 2,311,383; Feb. 16.
Film viewer. W. Bouma. 2,311,204; Feb. 16.
Filter: *See*—
Oil filter.
Filter. L. W. Williams. 2,311,320; Feb. 16.
Filter bed cleaner. C. Lose, Jr. 2,311,594; Feb. 16.
Filtering and sterilizing apparatus for water. C. A. Carring. 2,311,519; Feb. 16.
Fire control system for ventilating or air conditioning systems, Automatic. P. M. Farmer, F. C. Evans, and R. F. Spamer. 2,311,374; Feb. 16.
Fireplace, Outdoor. H. D. Carey. 2,311,366; Feb. 16.
Fish, Filleting. W. Hutton. 2,311,176; Feb. 16.
Fish grapple. E. H. Lange. 2,311,401; Feb. 16.
Flashlight device. S. Iwanowicz. 2,311,439; Feb. 16.
Flotation. P. M. Frantz and W. M. Bertholf. 2,311,527; Feb. 16.
Flow indicator. T. Farwick. 2,311,375; Feb. 16.
Flue heat extractor. J. T. Grotenhouse. 2,311,226; Feb. 16.
Fluid container. W. H. Rose. 2,311,578; Feb. 16.
Fluid drive. S. N. Silverstone. 2,311,580; Feb. 16.
Fluid operated pump with built-in governor. C. J. Coberly. 2,311,157; Feb. 16.
Fluid pump or motor. V. L. Du Bois. 2,311,162; Feb. 16.
Fluids, Contract treatment of. R. C. Lassiat. 2,310,962; Feb. 16.
Flux for magnesium and magnesium alloys. P. R. C. Pyle and N. C. Sheppard. 2,311,126; Feb. 16.
Flying machine. C. Dornier. 2,311,161; Feb. 16.
Folding machine. J. W. Rudolph. 2,311,085; Feb. 16.
Food products, Diabetic and dietetic. J. Kuderman. 2,311,235; Feb. 16.
Foot exercising apparatus. K. B. Whitney. 2,311,274; Feb. 16.
Fruit dejuicing apparatus. T. G. Nelson. 2,311,565; Feb. 16.
Fruit marking machine. H. J. Mumma and Z. Leonard. 2,311,563; Feb. 16.
Fuel, Aviation. A. Voorhies, Jr. 2,311,498; Feb. 16.
Fuel indicator. T. H. Svendsen. 2,311,003; Feb. 16.
Fuse and circuit breaker, Combination. R. A. Bayne. 2,311,019; Feb. 16.
Game. C. E. Cole. 2,311,029; Feb. 16.
Game. J. L. McKeown. 2,311,453; Feb. 16.
Game. L. V. Wood. 2,311,106; Feb. 16.
Game, Quiz. G. W. Emmert. 2,311,217; Feb. 16.
Gas burner. M. Rabinowicz. 2,311,127; Feb. 16.
Gas, Manufacture of producer. F. Totzek and J. Daniels. 2,311,140; Feb. 16.
Gasoline and oil vapor pressure controller. W. M. Mercer. 2,310,979; Feb. 16.
Gauge: *See*—
Liquid level gauge. Rivet gauge.
Gear finishing. R. S. Drummond. 2,311,037; Feb. 16.
Gearing and gear teeth, Spiral. N. Trbojevich. 2,311,006; Feb. 16.
Glider structure. W. I. Smith. 2,311,482; Feb. 16.
Glove. C. F. Schuessler. 2,311,133; Feb. 16.
Glove, Contact. W. H. Wilcox. 2,311,276; Feb. 16.
Governing system. J. J. Ring and B. R. Nichols. 2,310,994; Feb. 16
Governor valve mechanism. O. Lutherer. 2,311,061; Feb. 16.
Grinding ball and making the same. R. H. Noderer and L. R. Walker. 2,310,987; Feb. 16.
Grinding machine. R. H. Cramer. 2,311,213; Feb. 16.
Grommet. R. D. Winkelmeyer. 2,311,427; Feb. 16.
Guanyl ureas, Preparation of. D. W. Jayne, Jr. 2,311,296; Feb. 16.
Guide apparatus for centrifugal blowers and pumps. A. Büchi. 2,311,024; Feb. 16.
Gun sight. B. Lobdell. 2,311,186; Feb. 16.
Gun sighting means. J. Beresky. 2,310,929; Feb. 16.
Gyroscopic internal combustion engine. P. R. McCrary. 2,311,064; Feb. 16.
Hair cutting or clipping machine. E. H. Law. 2,311,552; Feb. 16.
Halogen substituted acylamino sulphonic acids. H. Martin, H. H. Zaeslin, R. Hirt, C. Glatthaar, and A. Staub. 2,311,062; Feb. 16.
Hand wheel. E. E. Van Cleave. 2,311,269; Feb. 16.
Handle for locks for automobile bodies, Optional safety. E. G. Simpson. 2,311,094; Feb. 16.
Hay buck, stacker, and loader, Combination. K. V. Cope and H. H. Helmers. 2,311,523; Feb. 16.
Heat control apparatus. H. T. Kucera. 2,311,236; Feb. 16.
Heat exchange apparatus. C. H. Carr. 2,311,155; Feb. 16.
Heat exchanger. A. S. Limpert. 2,310,970; Feb. 16.
Heat exchanger. W. A. Shaw. 2,311,190; Feb. 16.
Heatconducting luting material. W. C. Ferguson and P. Sussenbach. 2,311,526; Feb. 16.
Heater: *See*—
Electric heater. Water heater.
Solar heater.
High frequency receiver. W. H. Conron and B. W. Suckle. 2,311,522; Feb. 16.
Hoist. M. E. Hover. 2,311,544; Feb. 16.
Hoist for materials. D. MacIsaac. 2,311,555; Feb. 16.
Holder: *See*—
Electrode holder.
Holding device for automobile body parts. W. H. Ferguson. 2,311,042; Feb. 16.
Hood. H. J. Williams. 2,311,277; Feb. 16.
Hydraulic apparatus. R. W. Keeler. 2,311,443; Feb. 16.
Hydraulic brake. M. L. Masteller. 2,310,976; Feb. 16.
Hydraulic epicyclic transmission device. W. H. N. Loveday. 2,311,237; Feb. 16.
Hydraulic hold-down. L. R. Williamson. 2,311,147; Feb. 16.
Hydraulic snap-on coupler, Multijawed chuck-type. E. P. Sundholm. 2,311,097; Feb. 16.
Hydrocarbon conversion. K. M. Watson. 2,311,273; Feb. 16.
Hydrocarbon distillates, Refining light. P. V. Brower and L. Love. 2,311,328; Feb. 16.
Hydrocarbon fluids, Treating. J. T. Ward. 2,311,421; Feb. 16.
Hydrocarbon oils, Conversion of. J. M. Barron. 2,310,922; Feb. 16.
Hydrocarbons, Conversion of. H. V. Atwell. 2,311,357; Feb. 16.
Hydrocarbons, Treating. V. A. Kalichevsky, E. T. Scafe, and K. F. Hayden. 2,311,593; Feb. 16.
Ice cream hardening and dispensing cabinet. J. T. Smith and A. L. Reiter. 2,311,000; Feb. 16.
Illuminating apparatus of the gaseous glow tube type. R. S. Horn. 2,311,543; Feb. 16.
Iminopyrazolone coupler for color photography. H. D. Porter and A. Weissberger. 2,311,081; Feb. 16.
Implement combination. R. B. Laird. 2,311,551; Feb. 16.
Indicator: *See*—
Air-flow indicator. Flow indicator.
Continuous mud weight indicator. Fuel indicator.
Indicator. M. Lichter. 2,310,968; Feb. 16.
Inhibitor, Copper corrosion. F. M. Archibald and C. A. Harris. 2,311,505; Feb. 16.
Instrument field testing set. H. N. Lumm. 2,310,974; Feb. 16.
Interceptor, Torpedo. J. Haut. 2,311,388; Feb. 16.
Interlock mechanism. D. S. Willson. 2,311,193; Feb. 16.

Internal combustion engine. J. W. Lacy. 2,311,311; Feb. 16.
Iodo derivatives of steroid compounds and manufacturing the same. B. Helferich and E. Günther. 2,311,050; Feb. 16.
Iron: *See*—
Electric steaming iron.
Iron, Manufacture of wrought. E. B. Story. 2,311,002; Feb. 16.
Ironing board. W. H. Pleiss. 2,311,612; Feb. 16.
Ironing machine. A. J. Patch. 2,311,569; Feb. 16.
Ironing machine. J. W. Racklyeft. 2,311,250; Feb. 16.
Iso-dialkylstilbestrols to dialkylstilbestrols, Rearrangement of. A. Serini and K. Steinruck. 2,311,093; Feb. 16.
Jack: *See*—
Automobile jack. Refrigerator jack.
Pump jack. Shore jack.
Jar closure. R. W. Andreasson. 2,311,198; Feb. 16.
Jig. H. L. Dershem. 2,311,433; Feb. 16.
Joint: *See*—
Pavement joint.
Joint structure for corrugated glass sheets. L. T. Sherwood. 2,311,191; Feb. 16.
Juicer. M. D. Gillanders. 2,311,379; Feb. 16.
Ketones and making same, Doubly unsaturated. A. Wettstein. 2,311,102; Feb. 16.
Knife, Utility pocket. C. A. De Fraties. 2,311,107; Feb. 16.
Knitted fabric and method. O. Fregeolle. 2,311,166; Feb. 16.
Knitting machine. L. A. Miller and C. C. Foil. 2,311,119; Feb. 16.
Labels from bottles, Method of and apparatus for removing. J. L. Herold. 2,311,391; Feb. 16.
Ladder, Rungless. E. L. Seiler. 2,311,352; Feb. 16.
Lamp: *See*—
Ultra violet lamp.
Latch: *See*—
Luggage latch.
Latex composition. R. R. Sterrett. 2,311,136; Feb. 16.
Lenses, Making. R. F. Bardwell and J. H. Smith. 2,310,925; Feb. 16.
Lethal composition for insects. J. H. Ford and H. W. Eck. 2,310,949; Feb. 16.
Leveling device. L. E. Blanchett. 2,310,930; Feb. 16.
Lever, Hand-brake. C. W. Caldwell. 2,311,208; Feb. 16.
Lifesaving fire escape apparatus. E. R. Morando. 2,311,070; Feb. 16.
Light projecting device. E. W. Kellogg. 2,311,444; Feb. 16.
Liner, Corrosionproof. R. M. Thomas and W. J. Sparks. 2,311,308; Feb. 16.
Linoleum products, Producing. F. W. Gans. 2,311,044; Feb. 16.
Liquid consisting of basic aluminum sulphate for the recovery of sulphur dioxide, Regeneration of an absorption. J. Barwasser and W. Thumm. 2,311,202; Feb. 16.
Liquid dispensing apparatus. R. R. Trexler. 2,311,007; Feb. 16.
Liquid fuel burner. R. S. Pruitt. 2,311,469; Feb. 16.
Liquid level gauge. C. L. Hastings. 2,311,387; Feb. 16.
Liquid level, Indicating. J. Schierenbeck. 2,310,999; Feb. 16.
Liquid treatment apparatus. V. P. Gershon. 2,311,532; Feb. 16.
Lithographic plate and making the same. W. T. Hagelin. 2,311,047; Feb. 16.
Lubricant. C. F. Prutton. 2,310,993; Feb. 16.
Lubricant, Extreme pressure. J. C. Zimmer and G. M. McNulty. 2,311,500; Feb. 16.
Lubricating material, Producing. H. W. Ritchey. 2,311,305; Feb. 16.
Lubricating system. L. T. Miller. 2,311,069; Feb. 16.
Lubricating system for sewing machines. F. F. Zeier. 2,311,604; Feb. 16.
Luggage latch. M. L. Marsh. 2,311,298; Feb. 16.
Luminescent coating, Applying. M. E. Bell and L. J. Berberich. 2,311,513; Feb. 16.
Machine tool. M. A. Mathys. 2,310,977; Feb. 16.
Magazine for firearms. O. F. Van Horn, K. W. Kinney, and F. W. McGlohn. 2,311,497; Feb. 16.
Magnetic suspension. A. Hansen, Jr. 2,311,382; Feb. 16.
Maltose and galactose fermentations. A. S. Schultz, L. Atkin, and C. N. Frey. 2,311,418; Feb. 16.
Mantle support. H. Rinnman. 2,311,253; Feb. 16.
Marker for grass badminton courts, Boundary line. R. D. Michael. 2,311,243; Feb. 16.
Match pack, Safety. W. N. Musson. 2,311,072; Feb. 16.
Material, Flocked. A. Leavy and J. Ippolito. 2,310,965; Feb. 16.
Material for wrapping pipes and for covering metallic surfaces. A. H. Reynolds. 2,311,572; Feb. 16.
Material for wrapping pipes and for covering metallic surfaces. R. A. Shoan. 2,311,573; Feb. 16.
Material handling and weighing machine. L. J. Nowak, Jr. 2,310,988; Feb. 16.
Material, Making friction. I. J. Novak. 2,311,244; Feb. 16.
Materials, Handling finely divided. J. C. Munday. 2,311,564; Feb. 16.
Measurement and/or control, System of. A. J. Hornfeck. 2,310,955; Feb. 16.
Measurement apparatus. W. B. O'Neal and W. P. Zimmerman. 2,311,076; Feb. 16.
Measuring and marking device. C. F. Burgner. 2,311,025; Feb. 16.
Mechanism for delivering articles from machines. A. G Rose. 2,311,577; Feb. 16.
Metal bearing materials, Chlorination of. A. Pechukas. 2,311,466; Feb. 16.
Metal carbonyls, Production of. R. Staeger, P. Assmann, and K. Ehrmann. 2,311,307; Feb. 16.
Metal corner bead for dry well construction. W. B. Mitchell. 2,311,345; Feb. 16.
Metal treatment. U. C. Tainton. 2,311,099; Feb. 16.
Meter: *See*—
Parking meter.
Micrometer, Inside. W. A. Semerak. 2,311,477; Feb. 16.
Milk cooling and dispensing device. C. A. Thomas. 2,311,602; Feb. 16.
Milk product and the manufacture thereof and composition therefor. V. C. E. Le Gloahec. 2,311,343; Feb. 16.
Mill: *See*—
Rolling mill.
Mineral oils, Refining of. H. J. Moyer. 2,311,562; Feb. 16.
Mirror. S. Landell. 2,311,400; Feb. 16.
Mixer for internal combustion engines, Gaseous fuel. H. W. Smith. 2,311,315; Feb. 16.
Mold form, Heated. J. A. Miller. 2,311,561; Feb. 16.
Molding machine. R. B. Shugart and J. G. Boettcher. 2,311,480; Feb. 16.
Molding retaining clip. E. A. Meyer. 2,311,410; Feb. 16.
Mortising machine. G. Maurer. 2,311,451; Feb. 16.
Mosquito bar support. H. B. Johnson. 2,311,109; Feb. 16.
Motion picture and sound projector. D. G. Moore. 2,310,985; Feb. 16.
Motor: *See*—
Fluid pump or motor.
Motor and constructing, Internal Combustion. F. H. Emery. 2,311,039; Feb. 16.
Motor control. R. P. Dewey. 2,310,941; Feb. 16.
Motor fuel, Manufacture of. L. R. Strawn. 2,311,096; Feb. 16.
Mounting: *See*—
Vibration-free mounting.
Mounting for rotary wing aircraft, Blade. H. F. Pitcairn. 2,311,247; Feb. 16.
Mouse trap. D. F. Jorgensen. 2,311,178; Feb. 16.
Mower for tractors, Side. H. W. Simpson and A. Abgarian. 2,311,095; Feb. 16.
Multiplex receiving system. A. D. Blumlein. 2,311,021; Feb. 16.
Multiply siftproof bag. G. W. Poppe. 2,311,248; Feb. 16.
Navigation computer. T. L. Thurlow and S. M. Burka. 2,311,005; Feb. 16.
Necktie. V. Naftali. 2,311,460; Feb. 16.
Needle-bar vibrating mechanism. A. R. Wood. 2,311,194; Feb. 16.
Nitrated bornyl phenols and preparing the same. R. O. Roblin, Jr., and I. Hechenbleikner. 2,311,282; Feb. 16.
Nozzle, Liquid dispensing. F. B. Eilers and F. J. Graef. 2,311,292; Feb. 16.
Nursing device. A. M. Kazimirow. 2,311,397; Feb. 16.
Oil burner. F. Ravnsbeck. 2,311,571; Feb. 16.
Oil burner electrode and mounting means therefor. W. W. Slaght. 2,311,601; Feb. 16.
Oil filter. M. Gaertner. 2,311,377; Feb. 16.
Oil, Stabilized high film strength lubricating. B. H. Lincoln and W. L. Steiner. 2,310,971; Feb. 16.
Oils, Cracking. C. W. Tyson and E. V. Murphree, and H. G. M. Fischer. 2,311,318; Feb. 16.
Oils, Thermal treatment of drying. R. F. Ruthruff. 2,310,997; Feb. 16.
Ophthalmoscope. W. N. Allyn. 2,311,502; Feb. 16.
Ophthalmoscope. W. N. Allyn and W. G. Allyn. 2,311,503; Feb. 16.
Oscillator circuit. R. B. Edwards. 2,311,163; Feb. 16.
Pad: *See*—
Depilatory abrasive pad.
Pain-alleviating material. H. C. Connell. 2,310,937; Feb. 16.
Pallet, Reversible. G. Quayle. 2,311,280; Feb. 16.
Panel construction. F. F. Beil. 2,311,361; Feb. 16.
Panel, door, or closure, Flexible. A. P. Ritter. 2,311,470; Feb. 16.
Paper, Facsimile recording. W. G. H. Finch. 2,310,946; Feb. 16.
Paper feed mechanism. J. Mueller. 2,311,456; Feb. 16.
Parachute device, Captive. L. Hawthorne. 2,311,171; Feb. 16.

Parasiticide. W. P. ter Horst. 2,311,585; Feb. 16.
Parking meter. F. L. Michaels. 2,311,242; Feb. 16.
Pavement joint. R. B. Tufts. 2,311,286; Feb. 16.
Pen construction. A. C. Bussey. 2,311,207; Feb. 16.
Periscope. D. J. Crawford. 2,310,939; Feb. 16.
Photographic developer. W. H. Wood. 2,311,428; Feb. 16.
Photographic film comprising nitrocellulose film base stabilized by a dihydrazide of an aliphatic dicarboxylic acid. D. R. Swan and J. M. Calhoun. 2,311,098; Feb. 16.
Photographic material and producing the same. R. J. H. Alink, J. H. de Boer, K. H. Klaassens and C. F. Veenemens. 2,311,016; Feb. 16.
Photographic products from compositions containing far-hydrolyzed cellulose esters, Preparing. M. Salo. 2,311,086; Feb. 16.
Photographic reversal process of producing dye images without reexposure. E. Meschter. 2,310,982; Feb. 16.
Photographic silver halide emulsion. W. G. Lowe. 2,311,058–9; Feb. 16.
Photographic silver halide emulsion. W. J. Weyerts. 2,311,103; Feb. 16.
Picking and cleaning machine, Hop. J. G. Gordon and M. A. Lesh. 2,311,169; Feb. 16.
Pickup for detecting and translating vibrations. O. G. Salb and R. E. Sturm. 2,311,416; Feb. 16.
Pin holder for bowling pin setters. R. E. Rundell. 2,310,996; Feb. 16.
Pipe rotating apparatus. D. B. Grable. 2,311,225; Feb. 16.
Piston: *See*—
Self-packing piston.
Piston, Expansible. W. G. Swift. 2,311,584; Feb. 16.
Piston ring. W. S. Mason. 2,311,557–9; Feb. 16.
Planetary transmission. H. E. Carnagua. 2,311,209; Feb. 16.
Plastic composition. C. E. Staff and W. N. Stoops. 2,311,259; Feb. 16.
Plastic composition, Iridescent. I. and L. Gertzog. 2,311,533; Feb. 16.
Plastic material. C. Snyder. 2,311,284; Feb. 16.
Polyamide, Plasticized. G. T. Vaala. 2,311,587; Feb. 16.
Polyester compounds and making same. A. H. Gleason. 2,311,534; Feb. 16.
Polymerizations, Carry out. M. Otto, H. Gueterbock, and A. Hellemanns. 2,311,567; Feb. 16.
Polymers derived from styrene, Making. J. W. Zemba and G. H. Coleman. 2,311,615; Feb. 16.
Polymers of amides of alpha-methylene monocarboxylic acids. R. A. Jacobson and C. J. Mighton. 2,311,548; Feb. 16.
Polyvinyl acetals. G. L. Dorough and D. M. McQueen. 2,310,943; Feb. 16.
Poultry picking machine. H. C. Campbell. 2,311,365; Feb. 16.
Pouring spout for receptacles, Self-attaching. A. Read. 2,311,255; Feb. 16.
Power drive for motor vehicles. E. R. Honeywell. 2,311,393; Feb. 16.
Power take-off. K. W. Couse. 2,311,030; Feb. 16.
Power transmission. W. P. Schmitter. 2,311,597; Feb. 16.
Precision machine tool. F. Turrettini. 2,311,142; Feb. 16.
Press: *See*—
Shoe press. Sleeve ironing press.
Printing interpreter. R. W. Ritzert. 2,311,471; Feb. 16.
Printing telegraph apparatus. C. A. Levin. 2,310,966–7; Feb. 16.
Protective circuit. L. W. Foster. 2,311,376; Feb. 16.
Protector: *See*—
Condenser tube protector. Radiator protector.
Pump: *See*—
Rotary pump.
Pump. E. H. Herbert. 2,311,229; Feb. 16.
Pump assemblage, Hydraulic. E. M. Pfauser. 2,311,468; Feb. 16.
Pump jack. J. O. Andree. 2,311,504; Feb. 16.
Pump structure for oil burners. R. E. Nest. 2,311,461; Feb. 16.
Push car. H. S. Brown and G. E. Thomson. 2,311,205; Feb. 16.
Push grader. R. G. Le Tourneau. 2,311,553; Feb. 16.
Pyrazolone coupler for color photography. H. D. Porter and A. Weissberger. 2,311,082; Feb. 16.
Pyridine, Continuous recovery of. J. W. Schutt. 2,311,134; Feb. 16.
Racket. K. Hetzel. 2,311,172; Feb. 16.
Radiator protector. J. Muhr. 2,311,457; Feb. 16.
Radio-acoustic apparatus. A. H. Turner. 2,311,491; Feb. 16.
Radio clock. M. M. Gottlieb. 2,311,380; Feb. 16.
Radio communication, Duplex. E. Gerhard. 2,311,435; Feb. 16.
Radio relaying system. H. O. Peterson. 2,311,467; Feb. 16.
Rail construction, Guard. W. S. Ferguson. 2,311,221; Feb. 16.
Rail end suspension, Guard. W. S. Ferguson. 2,311,220; Feb. 16.

Railway car structure. K. F. Nystrom. 2,311,188; Feb. 16.
Railway journal lubricator device. J. J. Hennessy. 2,311,390; Feb. 16.
Railway track circuit apparatus. A. E. Dodd. 2,311,034; Feb. 16.
Range-finder, height-finder, and the like. H. Murtagh. 2,311,187; Feb. 16.
Receiver with motor drive, Push button tuned. E. Gendriess. 2,311,168; Feb. 16.
Receptacle: *See*—
Ash receptacle.
Record changing apparatus, Automatic. J. H. Pressley. 2,311,596; Feb. 16.
Refrigerating apparatus. R. E. Gould. 2,311,224; Feb. 16.
Refrigerating apparatus. M. J. Goulooze. 2,311,045; Feb. 16.
Refrigeration. S. M. Backstrom and P. P. Strandberg. 2,231,512; Feb. 16.
Refrigeration apparatus. P. E. James. 2,311,549; Feb 16.
Refrigeration apparatus for air conditioned passenger vehicles. M. E. Hanson. 2,311,294; Feb. 16.
Refrigerator cabinet. J. L. Knight. 2,311,446; Feb. 16.
Refrigerator display case. S. Bohn. 2,311,182; Feb. 16.
Refrigerator jack. C. S. Johnston. 2,311,442; Feb. 16.
Refrigerator shelf. A. E. Nave. 2,311,411; Feb. 16.
Regulator: *See*—
Damper regulator.
Regulator and system, Thermostatic draft. P. S. Martin. 2,311,408; Feb. 16.
Replicas and product, Producing accurate. M. R. Hutchison. 2,311,547; Feb. 16.
Resilient contact for bumper switches. H. Heiss.
Resin, Treatment of. L. Auer. 2,311,511; Feb. 16.
Resinous composition. R. P. Carlton and B. J. Oakes. 2,310,935; Feb. 16.
Resins, Molding synthetic. J. Jaenicke, H. Knoop, H. Miedel, and O. Schweitzer. 2,311,233; Feb. 16.
Resins, Plasticizing amino-formaldehyde. W. B. Johnston. 2,311,341; Feb. 16.
Resistance device and switch unit, Combined adjustable. H. F. Nied. 2,311,611; Feb. 16.
Reversal process of color photography. E. Meschter. 2,310,981; Feb. 16.
Ring: *See*—
Piston ring.
Ring binder construction. J. Schade. 2,311,089; Feb. 16.
Rivet gauge. R. H. Addis. 2,311,323; Feb. 16.
Rocker, Roller. A. J. Harpstrite. 2,311,384; Feb. 16.
Roll snubber for wringers, Upper. J. Stanitz. 2,311,192; Feb. 16.
Rolling mill. J. M. O'Malley. 2,311,075; Feb. 16.
Rope swivel and clamp. J. R. Furey. 2,311,043; Feb. 16.
Rosin, Manufacture of modified. L. Auer. 2,311,200; Feb. 16.
Rosin, Treating. L. Auer. 2,311,508; Feb. 16.
Rosin treatment. L. Auer. 2,311,509; Feb. 16.
Rosin treatment method. L. Auer. 2,311,510; Feb. 16.
Rotameter construction. K. D. Bowen. 2,311,181; Feb. 16.
Rotary pump. D. A. Fulton. 2,311,334; Feb. 16.
Rotary to reciprocatory motion as applied to cutting machines, Transforming a. C. Cito. 2,311,368; Feb. 16.
Rubber and asphalt dispersion cement. H. J. Livermore, G. F. Lindner, and H. N. Stephens. 2,310,972; Feb 16.
Rubber and composition employed therein, Depositing. R. E. Thomas. 2,311,488; Feb. 16.
Rubber articles, Manufacture of hard. H. V. Allison. 2,311,605; Feb. 16.
Rubber, Milling. C. A. Klebsattel. 2,311,112; Feb. 16.
Rubber sheeting, Method and apparatus for making thick latex. M. E. Hansen. 2,311,617; Feb. 16.
Safety device for presses and the like. L. D. James. 2,311,441; Feb. 16.
Sandpapering machine. A. T. Munn. 2,311,346; Feb. 16.
Saturated and unsaturated 17-hydroxy-androstanes, their derivatives and substitution products, and making the same. K. Miescher and A. Wettstein 2,311,067; Feb. 16.
Saw braking mechanism, Automatic band. C. E. Tannewitz. 2,311,268; Feb. 16.
Sawing apparatus. L. A. Wilkie. 2,311,426; Feb. 16.
Scaffold. T. S. Castner. 2,311,210; Feb. 16.
Scale, Weighing. W. F. Stimpson and M. J. Lachance 2,311,264; Feb. 16.
Scarfing machine. D. H. Duffy. 2,311,215; Feb. 16.
Scouring implement. M. Eisenberg. 2,310,945; Feb. 16.
Scratch resistance testing machine. N. J. Beno 2,311,430; Feb. 16.
Screen for windows. E. S. Persson. 2,311,413; Feb. 16.
Screening apparatus. W. J. Parks. 2,311,279; Feb. 16.
Screens, Halftone. A. Murray. 2,311,071; Feb. 16.
Screw element and washer assembly. C. G. Olson 2,311,299; Feb. 16.
Scythe. H. Sandholt. 2,311,417; Feb. 16.
Seal. R. J. Vedovell. 2,311,494; Feb. 16.
Seal, Tag. M. Canter. 2,311,152; Feb. 16.

Seat construction. C. H. Widman and N. C. Clark. 2,311,145; Feb. 16.
Self-adjusting book cover. R. Carlo. 2,311,153; Feb. 16.
Self-packing piston. Le G. Daly. 2,310,917; Feb. 16.
Self-sealing coupling. D. W. Main and F. P. Hirsch. 2,311,239; Feb. 16.
Separator: *See*—
Centrifugal separator. Dental separator.
Separator disk scrubbing machine. R. L. Meyers. 2,311,066; Feb. 16.
Sewing machine attachment. R. J. McFalls and R. Herrington. 2,311,407; Feb. 16.
Sewing mechanism, Ziz-zag. J. Galkin. 2,311,222; Feb. 16.
Shaft bearing. C. L. Bean. 2,310,923; Feb. 16.
Shaped structures from solutions of cellulose derivatives, Manufacture of. L. Lilienfeld. 2,310,969; Feb. 16.
Shears, Pruning. H. C. James. 2,310,959; Feb. 16.
Sheet handling mechanism. W. A. Robinson, Sr. 2,310,995; Feb. 16.
Sheet material, Making. W. C. Toland and E. Bassist. 2,311,489; Feb. 16.
Sheet treating machine. C. S. Woolford. 2,311,014; Feb. 16.
Shelter for motor vehicles, Portable. O. Bramblett. 2,311,514; Feb. 16.
Shipping container. L. Schwartzberg. 2,311,473; Feb. 16.
Shoe, Nonskid. J. B. Lau. 2,311,116; Feb. 16.
Shoe press. W. S. Anderson. 2,311,325; Feb. 16.
Shoe upper lacing machine. J. Fossa. 2,311,165; Feb. 16.
Shore jack. H. L. Martin. 2,311,063; Feb. 16.
Shrinkproofing process. P. Arthur, Jr. 2,311,507; Feb. 16.
Shrunk connection, particularly for tubular members. H. Caminez. 2,311,329; Feb. 16.
Sirups, Production of high concentrated fixing and hardening. G. P. Ham. 2,311,293; Feb. 16.
Sleeve ironing press. F. A. Wiegman and G. R. Young. 2,311,275; Feb. 16.
Slide fastener. I. Marinsky. 2,311,556; Feb. 16.
Smoke or fog, Method and apparatus for production of. P. A. Astradsson. 2,311,199; Feb. 16.
Soap and forming the same, Partitioned. J. W. Bodman and F. F. Pease. 2,310,931; Feb. 16.
Soap dispenser. W. A. Dudley. 2,311,330; Feb. 16.
Soil samples for determining oil content, Analysis of. J. G. Campbell. 2,311,151; Feb. 16.
Solar heater. C. A. Scott. 2,311,579; Feb. 16.
Solenoid. D. W. Davis. 2,311,431–2; Feb. 16.
Sound operated control system. M. A. Kerr. 2,311,445; Feb. 16.
Sound record and making the same. E. E. Sawyer. 2,310,998; Feb. 16.
Sound records, Production of. G. L. Dimmick. 2,311,159; Feb. 16.
Sound reproducing apparatus. H. Belar. 2,311,362; Feb. 16.
Sound translating apparatus. H. J. Hasbrouck, Jr. 2,311,385; Feb. 16.
Speed gearing, Change. W. H. De Lancey. 2,311,031; Feb. 16.
Speed governor. F. W. Merrill. 2,311,409; Feb. 16.
Spheres, Method of and apparatus for winding. H. N. Huse. 2,311,339; Feb. 16.
Spring construction. W. T. Sark. 2,311,256; Feb. 16.
Spring suspension, especially for vehicles. T. Ulrich. 2,311,603; Feb. 16.
Spring suspension for chasses. T. Ulrich. 2,311,419; Feb. 16.
Spring winding device. C. Hill. 2,311,230; Feb. 16.
Sprinkler, Lawn. T. Svet. 2,311,266; Feb. 16.
Stand: *See*—
Watch stand.
Static discharge device. H. M. Hucke. 2,311,608; Feb. 16.
Steam engine. W. Newcomb. 2,311,074; Feb. 16.
Steering device aid for heavy motor trucks and the like. H. Zigan. 2,311,321; Feb. 16.
Steering device, Balanced automatic. F. S. Hodgman. 2,310,954; Feb. 16.
Steering knuckle. R. H. Phelps. 2,311,125; Feb. 16.
Steering wheel. W. F. Lange. 2,311,448; Feb. 16.
Step threading mechanism. W. F. Groene and R. M. Bacon. 2,311,591; Feb. 16.
Stirrer for food cookers. G. R. Tyler. 2,311,586; Feb. 16.
Stoker. S. A. Townsend, Jr. 2,311,100; Feb. 16.
Stove. R. M. Pyle. 2,311,570; Feb. 16.
Stove and the like, Electrically heated. B. H. R. Sandell. 2,311,087; Feb. 16.
Stretching device. J. Pearl. 2,311,245; Feb. 16.
Strip feed for writing machines. W. H. Hope, Jr. 2,311,051; Feb. 16.
Striping apparatus. C. C. Efird and W. L. Marshall. 2,311,038; Feb. 16.
Structure, Collapsible. H. C. Bridge. 2,311,515; Feb. 16.
Styrene copolymers, Preparation of. G. H. Coleman and J. W. Zemba. 2,311,607; Feb. 16.
Submarine. J. A. Hanley. 2,311,539; Feb. 16.
Suction holding device. V. M. Ebbs. 2,311,525; Feb. 16.
Sulphur removal from hydrocarbons. W. J. Kerns and C. M. Beamer. 2,311,342; Feb. 16.
Sun visor. C. J. Lauer. 2,311,402; Feb. 16.
Support: *See*—
Mantle support. Mosquito bar support.
Switch: *See*—
Electric switch. Enclosed switch.
Electric thermal switch.
Switch assembly, Push-button. H. M. Zimmerman and G. O. Puerner. 2,311,322; Feb. 16.
Switch for internal combustion engines, safety. R. G. Berry. 2,311,179; Feb. 16.
Synthetic filament, Treatment of. M. L. Macht and M. M. Renfrew. 2,311,405; Feb. 16.
Table top, Auxiliary. J. Worth. 2,311,149; Feb. 16.
Take-up device, Automatic. W. R. Fischer. 2,310,947; Feb. 16.
Tall-oil materials, Stabilizing. T. Hasselstrom. 2,311,386; Feb. 16.
Tampion. C. B. Gage. 2,311,167; Feb. 16.
Tank control, Top. R. A. West. 2,311,499; Feb. 16.
Tank drain, Air vented. M. N. Johnson. 2,311,177; Feb. 16.
Tape dispensing apparatus. T. S. Bevier. 2,311,363; Feb. 16.
Taper attachment construction. C. A. Bickel. 2,311,203; Feb. 16.
Telephone system. T. F. Crocker. 2,311,214; Feb. 16.
Tennis racket, Table. V. H. Hurt. 2,311,546; Feb. 16.
Tent pole. C. C. Thornquist. 2,311,355; Feb. 16.
Terracing machine. O. Gross. 2,311,337; Feb. 16.
Testing machine. J. S. Kopas. 2,311,055; Feb. 16.
Textile crinkler. I. V. Hitt. 2,311,174; Feb. 16.
Textile treatment. W. J. Burke, R. W. Maxwell, and P. S. Pinkney. 2,311,027; Feb. 16.
Textile treatment. P. S. Pinkney. 2,311,080; Feb. 16.
Thermo-responsive device. J. R. Campbell. 2,310,934; Feb. 16.
Thread receiver and remover. R. Sinclair. 2,311,481; Feb. 16.
Tin naphthenate, Manufacture of. D. E. Bowers. 2,311,310; Feb. 16.
Tire chain and its application. W. R. Royer. 2,311,621; Feb. 16.
Titanium carbide and similar materials, Purification of. C. C. Laughlin. 2,310,964; Feb. 16.
Tobacco feeding mechanism. J. P. Durning. 2,311,373; Feb. 16.
Tool: *See*—
Machine tool. Precision machine tool.
Torque of combustion engines, Measuring the. N. Ericson. 2,311,331; Feb. 16.
Torque transmission, Differentially balanced. C. Buraczynski. 2,311,150; Feb. 16.
Torque tube drive. N. E. Wahlberg. 2,311,143; Feb. 16.
Toy trailer truck. T. V. Osborne. 2,311,123; Feb. 16.
Transducer. J. O. Parr, Jr. 2,311,079; Feb. 16.
Transformer. M. O. Marsh. 2,311,450; Feb. 16.
Transformer. P. K. Ranney. 2,311,128; Feb. 16.
Transmission reverse gearing. T. Backus. 2,311,201; Feb. 16.
Transmitter. M. W. Muehter. 2,311,455; Feb. 16.
Transparent composite material. G. Slayter. 2,311,613; Feb. 16.
Transparent sheets, Decorating and molding of. L. V. Casto. 2,311,156; Feb. 16.
Trap: *See*—
Mouse trap.
Trap. J. S. Galiano. 2,311,378; Feb. 16.
Trap. J. Turpan. 2,311,490; Feb. 16.
Tree bracket. M. Krause. 2,311,495; Feb. 16.
Tri-(cyanoethyl)-acetone. H. A. Bruson. 2,311,183; Feb. 16.
Trucks into and from heated chambers of furnaces, Controlling movement of. C. W. Rudolph. 2,311,131; Feb. 16.
Tube coupling. J. L. Douglass. 2,310,944; Feb. 16.
Tube manufacturing device, Inner. F. J. Shook. 2,311,600; Feb. 16.
Turning attachment. G. M. Class. 2,311,211; Feb. 16.
Typewriter case. M. Lipman. 2,311,057; Feb. 16.
Typewriting machine. G. F. Handley and W. O. Michelsen. 2,311,227; Feb. 16.
Ultra violet lamp. J. W. Marden and M. G. Nicholson, Jr. 2,311,487; Feb. 16.
Upholstery material. J. R. Millar. 2,311,068; Feb. 16.
Vacuum cleaner and supporting means therefor, Tank type. W. J. Clements. 2,311,369; Feb. 16.
Valve: *See*—
Double seated valve.
Valve. R. W. Johnson. 2,311,110; Feb. 16.
Valve. R. J. Lauer. 2,310,963; Feb. 16.
Valve assembly. A. L. Parker. 2,311,454–5; Feb. 16.
Valve mechanism. J. K. Lund. 2,310,975; Feb. 16.
Valve mechanism, Hydraulic. H. Z. Gora. 2,311,336; Feb. 16.
Valve operating mechanism, Automatic. C. T. McGill and O. F. Dubruiel. 2,310,978; Feb. 16.
Valve structure. A. L. Arey. 2,311,506; Feb. 16.
Vegetable juices, Preparing. J. G. Souther. 2,311,316; Feb. 16.
Vehicle: *See*—
Crawler and rail vehicle. Dual wheel vehicle.
Vehicle. E. J. Weller, Jr. 2,311,424; Feb. 16.

Vehicle body construction. D. G. Renno. 2,311,129; Feb. 16.
Vehicle spring suspension system. T. Ulrich. 2,311,420; Feb. 16.
Vehicle undercarriage and brake operating mechanism. F. M. Reid. 2,311,252; Feb. 16.
Ventilator, Window. C. S. Amsler. 2,311,324; Feb. 16.
Ventilator, Window. C. J. Niesner. 2,311,122; Feb. 16.
Vibration-free mounting. F. H. Judkins. 2,311,396; Feb. 16.
Vinyl and acrylate resins, Composition of mixtures of. G. M. Powell III. 2,311,249; Feb. 16.
Vise. C. G. Garrigus and C. B. Cross. 2,311,335; Feb. 16.
Vitamin composition and preparing the same, Water-dispersible fat-soluble. S. T. Lipsius. 2,311,554; Feb. 16.
Vitamins A and D into aqueous mediums, Incorporating. L. O. Buxton and S. T. Lipsius. 2,311,517; Feb. 16.
Vulcanization. R. C. Bascom. 2,310,926; Feb. 16.
Wallboard, Making scored. H. Feder. 2,311,589; Feb. 16.
Wallboard, Scored. H. Feder. 2,311,590; Feb. 16.
Wash machine. B. Goldman. 2,310,950; Feb. 16.
Watch stand. R. P. Fleischner. 2,311,332; Feb. 16.
Water heater. E. S. Stack. 2,311,484; Feb. 16.
Water, Process and composition for softening hard. N. B. Tucker. 2,311,008; Feb. 16.
Water, Purification of. J. S. Reichert and A. A. Elston. 2,311,314; Feb. 16.
Wave band switching. E. Paschke. 2,311,124; Feb. 16.
Wax composition. J. B. Holtzclaw and J. E. Clemens. 2,311,338; Feb. 16.
Wearing surfaces, Preparing. T. H. Greer. 2,310,952; Feb. 16.
Weighing and grading apparatus. C. T. Walter. 2,311,614; Feb. 16.
Weighing scale. J. H. Homrighous. 2,311,437; Feb. 16.
Wheel: *See*—
Auxiliary traction wheel. Steering wheel.
Hand wheel.
Wheel or other articles, Steering. J. B. Tegarty. 2,311,317; Feb. 16.
Winder implement. J. Robinson. 2,311,575; Feb. 16.
Window, Locomotive storm. J. B. Kauffman. 2,311,550; Feb. 16.
Windows, Glazing. F. A. M. Oldham. 2,311,077; Feb. 16.
Windshield wiper drive. H. C. Nette and M. L. Taylor. 2,311,121; Feb. 16.
Workpieces in a controlled atmosphere, Bathing. A. W. Machlet. 2,311, 344; Feb. 16.
Woven material, Measuring lengths and correcting skew and bow in. A. P. Mansfield, C. W. La Pierre, W. H. Janssen, and M. S. Mead, Jr. 2,311,406; Feb. 16.
X-ray apparatus. A. Simmon. 2,311,581; Feb. 16.
Yarn, Process and apparatus for forming and treating. L. C. Greene. 2,310,951; Feb. 16.
Zein compound. O. C. H. Sturken. 2,311,485; Feb. 16.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 16, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 3: 2,311,412
30: 2,310,938
2— 74: 2,311,246
146: 2,311,460
5— 62: 2,311,542
131: 2,311,111
275: 2,311,256
286: 2,311,537
362: 2,311,109
8— 124: 2,311,027
2,311,080
128: 2,311,507
10— 101: 2,311,591
12— 33: 2,311,325
55: 2,311,085
14— 21: 2,311,241
15— 21: 2,311,066
130.1: 2,311,367
230: 2,311,135
236: 2,310,945
255: 2,311,121
16— 86: 2,311,278
108: 2,311,427
17— 11.1: 2,311,365
45: 2,311,176
18— 2: 2,311,617
47.5: 2,311,524
48: 2,311,588
54: 2,310,969
56: 2,311,156
19— 66: 2,311,174
20— 4: 2,311,170
5: 2,311,590
11: 2,311,182
15: 2,310,952
35: 2,311,045
2,311,361
23— 139: 2,311,619
178: 2,311,202
203: 2,311,307
288: 2,310,962
314: 2,311,154
24— 123: 2,311,043
221: 2,311,231
228: 2,311,429
249: 2,310,960
25— 41: 2,311,480
130: 2,311,358
154: 2,311,479
26— 51: 2,311,406
28— 2: 2,311,575
29— 84: 2,311,251
89: 2,311,042
2,311,536
30— 143: 2,311,107
186: 2,310,959
309: 2,311,417
31— 21: 2,311,618
32— 17: 2,311,158
64: 2,311,141
33— 53: 2,310,929
64: 2,311,076
129: 2,311,025
143: 2,311,323
2,311,477
34— 21: 2,311,309
71: 2,311,148
35— 12: 2,311,171
22: 2,311,055
48: 2,311,217
37— 98: 2,311,551
142: 2,311,463
144: 2,311,553
178: 2,311,337
38— 12: 2,311,275
58: 2,311,569
59: 2,311,250
77: 2,311,164
122: 2,311,612

40—124.1: 2,311,218
41— 36: 2,310,965
42— 50: 2,311,497
43— 5: 2,311,401
81: 2,311,490
81.5: 2,311,178
88: 2,311,378
44— 80: 2,311,498
45— 24: 2,311,245
68.2: 2,311,057
138: 2,311,326
46— 201: 2,311,123
48— 76: 2,311,140
180: 2,311,315
51— 66: 2,311,346
67: 2,311,185
95: 2,310,977
105: 2,311,213
125: 2,311,582
186: 2,311,060
284: 2,310,925
53— 22: 2,310,956
2,310,957
2,310,958
56— 25: 2,311,095
2,311,117
57— 34: 2,310,951
144: 2,311,356
58— 83: 2,311,230
60— 52: 2,311,443
2,311,468
54.6: 2,310,976
62— 2: 2,311,512
6: 2,311,294
19: Re.22,271
89: 2,311,425
2,311,549
102: 2,311,000
117: 2,311,224
141: 2,311,540
65— 16: 2,311,277
66— 12: 2,311,119
172: 2,311,166
174: 2,311,133
67— 29: 2,311,440
38: 2,311,253
68— 12: 2,311,545
23: 2,310,950
269: 2,311,192
72— 16: 2,311,345
73— 51: 2,310,974
2,311,115
2,311,430
189: 2,311,199
209: 2,311,181
2,311,375
228: 2,311,238
313: 2,310,999
317: 2,311,387
74— 1: 2,311,394
2: 2,311,206
7: 2,311,297
11: 2,311,030
110: 2,311,504
133: 2,311,552
189.5: 2,311,150
260: 2,311,209
283: 2,311,031
326: 2,311,265
333: 2,311,201
336.5: Re.22,267
388: 2,311,010
389: 2,311,597
466: 2,311,006
479: 2,311,208
483: 2,311,322
505: 2,311,398
552: 2,311,269

74— 552: 2,311,317
2,311,448
569: 2,311,423
75— 47: 2,311,002
63: Re.22,270
67: 2,311,126
111: 2,311,466
112: 2,311,458
2,311,459
77— 32: 2,310,990
58: 2,310,992
80— 54: 2,311,075
81— 17: 2,311,335
57: 2,311,225
82— 17: 2,311,203
35: 2,311,211
83— 91: 2,311,389
84— 385: 2,311,167
85— 36: 2,311,592
88— 2.2: 2,311,187
14: 2,311,101
16.2: 2,310,985
17: 2,311,204
22: 2,311,502
2,311,503
27: 2,311,056
68: 2,310,939
77: 2,311,400
90— 1.6: 2,311,037
91— 12: 2,311,038
92— 21: 2,311,244
55: 2,310,998
94— 17: 2,311,286
95— 2: 2,310,981
5: 2,311,547
6: 2,311,015
2,311,016
2,311,081
2,311,082
7: 2,311,020
2,311,058
2,311,059
2,311,103
8: 2,311,073
9: 2,311,098
81: 2,311,071
88: 2,310,980
2,310,982
2,311,293
2,311,428
97— 167: 2,311,353
98— 99.8: 2,311,122
106: 2,311,195
99— 11: 2,311,517
25: 2,311,343
59: 2,311,599
119: 2,311,598
141: 2,311,235
155: 2,311,316
100— 42: 2,311,565
101— 96: 2,311,471
114: 2,311,563
149.2: 2,311,047
103— 2: 2,311,078
87: 2,311,461
111: 2,311,024
124: 2,311,334
136: 2,311,162
152: 2,311,229
104— 50: 2,311,131
105—197.1: 2,310,989
2,311,313
211: 2,311,205
215: 2,311,304
276: 2,311,501
409: 2,311,188
106— 62: 2,310,953
65: 2,311,228
82: 2,311,271

106— 82: 2,311,272
91: 2,311,288
92: 2,311,290
94: 2,311,289
148: 2,311,533
153: 2,311,485
271: 2,311,338
108— 16: 2,311,191
110— 47: 2,311,100
112— 2: 2,311,541
5: 2,311,165
151: 2,311,407
158: 2,311,194
205: 2,311,222
210: 2,311,184
256: 2,311,604
113— 14: 2,311,538
99: 2,311,433
114— 17: 2,311,539
240: 2,311,388
116— 130: 2,310,968
117— 11: 2,311,589
34: 2,311,086
2,311,513
47: 2,311,488
62: 2,311,489
64: 2,311,518
126: 2,311,613
139: 2,311,405
119— 18: 2,311,207
121— 38: 2,311,516
41: 2,311,576
157: 2,311,157
193: 2,311,074
194: 2,311,036
122— 23: 2,311,484
123— 44: 2,311,064
51: 2,311,254
2,311,311
56: 2,311,146
148: 2,311,270
191: 2,311,039
193: 2,311,329
198: 2,311,179
124— 5: 2,311,160
125— 11: 2,311,262
2,311,263
2,311,302
126— 93: 2,311,570
137: 2,311,366
271: 2,311,579
128— 33: 2,311,274
165: 2,311,483
194: 2,311,578
373: 2,311,415
129— 8: 2,311,091
17: 2,311,492
24: 2,311,088
2,311,089
2,311,090
2,311,620
130— 30: 2,311,169
131— 21: 2,311,011
108: 2,311,373
135— 4: 2,311,515
5: 2,311,514
15: 2,311,355
47: 2,311,049
137— 68: 2,311,499
69: 2,311,177
144: 2,311,336
153: 2,310,979
2,311,110
2,311,351
138— 46: 2,311,381
139— 384: 2,311,556
141— 1: 2,311,196
2,311,197
7: 2,311,391

143— 17: 2,311,268
161: 2,311,426
144— 80: 2,311,451
144: 2,311,215
2,311,216
256: 2,311,561
146— 76: 2,311,379
148— 12: 2,310,987
13.2: 2,311,083
151— 32: 2,311,299
152— 213: 2,311,621
228: 2,311,116
153— 32: 2,311,041
154— 1: 2,311,013
2: 2,311,012
9: 2,311,600
26: 2,311,044
50: 2,311,572
2,311,573
54: 2,311,068
155— 62: 2,311,482
71: 2,311,384
81: 2,311,566
163: 2,311,105
179: 2,311,104
180: 2,311,145
158— 7: 2,311,350
46.5: 2,311,003
76: 2,311,404
77: 2,311,571
91: 2,311,469
115: 2,311,127
119: 2,311,061
160— 20: 2,311,413
95: 2,311,300
105: 2,311,324
122: 2,311,457
127: 2,311,550
229: 2,311,470
239: 2,311,348
161— 7: 2,311,108
164— 47: 2,311,368
48: 2,311,452
71: 2,311,234
84.5: 2,311,363
110: 2,311,147
166— 1: 2,311,212
167— 24: 2,310,949
30: 2,311,585
78: 2,310,937
81: 2,311,554
169— 2: 2,311,374
171— 118: 2,311,370
2,311,438
2,311,474
119: 2,311,128
123: 2,311,340
242: 2,311,118
314: 2,311,574
174— 99: 2,310,919
132: 2,311,138
172: 2,311,486
175— 115: 2,311,601
264: 2,311,608
265: 2,311,276
315: 2,310,932
320: 2,311,034
2,311,035
2,311,359
341: 2,311,431
2,311,432
356: 2,311,450
363: 2,311,376
176— 122: 2,311,487
124: 2,311,543
126: 2,310,983
177—311.5: 2,311,395
352: 2,311,079
2,311,445

177— 380: 2,311,455
179— 1: 2,311,399
15: 2,311,021
27: 2,311,214
100.3: 2,311,159
2,311,493
100.41: 2,311,385
171.5: 2,311,026
180— 17: 2,311,393
73: 2,311,143
79.1: 2,311,321
181— 24: 2,311,416
184— 6: 2,311,069
188— 72: 2,311,529
2,311,530
78: 2,311,528
97: 2,311,186
152: 2,311,252
189— 78: 2,311,077
88: 2,311,410
192— 3: 2,311,120
58: 2,311,580
61: 2,311,237
107: 2,311,113
130: 2,311,441
143: 2,311,142
194— 7: 2,311,560
92: 2,311,242
195— 37: 2,311,418
196— 2: 2,311,144
9: 2,311,357
10: 2,311,096
2,311,531
13: 2,311,372
24: 2,311,562
32: 2,311,593
33: 2,311,328
49: 2,310,922
52: 2,311,273
2,311,318
2,311,564
53: Re.22,269
116: 2,311,421
197— 53: 2,310,966
2,310,967
114: 2,311,227
127: 2,311,456
133: 2,311,051
198— 23: 2,311,577
65: 2,311,084
203: 2,310,920
200— 1: 2,311,124
52: 2,311,392
2,311,447
80: 2,311,409
83: 2,311,478
88: 2,311,048
114: Re.22,266
2,310,918
126: 2,311,092
130: 2,311,019
166: 2,311,436
201— 55: 2,311,611
76: 2,311,028
202— 52: 2,311,180
105: 2,311,349
254: 2,311,114
204— 2: 2,310,946
12: 2,311,257
145: 2,311,099
2,311,139
206— 29: 2,311,072
40: 2,311,173
209— 5: 2,310,964
121: 2,311,614
168: 2,311,527
326: 2,311,279
455: 2,311,414
210— 18: 2,311,532

210— 23: 2,311,008
2,311,314
24: 2,310,978
123: 2,311,519
128: 2,311,594
131: 2,311,320
187: 2,311,377
211—105.2: 2,310,928
131: 2,311,130
143: 2,311,411
214— 18: 2,310,924
120: 2,311,555
140: 2,311,523
215— 11: 2,311,397
83: 2,311,198
216— 39: 2,311,610
217— 26: 2,311,473
219— 8: 2,311,022
37: 2,311,087
2,311,371
220— 1.5: 2,310,948
20.5: 2,311,568
48: 2,311,001
64: 2,311,004
2,311,308
221— 23: 2,311,255
62: 2,311,330
95: 2,311,007
2,311,193
118: 2,311,347
226— 22: 2,310,940
37: 2,311,602
56: 2,311,017
227— 8: 2,311,070
25: 2,311,352
228— 12: 2,311,544
229— 5.8: 2,311,291
17: 2,311,333
19: 2,311,137
23: 2,311,040

229— 31: 2,311,403
51: 2,311,053
55: 2,311,248
230— 117: 2,311,369
233— 21: 2,311,606
235— 61: 2,311,005
82: 2,311,354
92: 2,311,360
144: 2,311,454
236— 12: 2,310,975
16: 2,311,408
46: 2,311,236
48: 2,310,934
74: 2,310,941
2,310,955
240— 6.46: 2,311,439
41.3: 2,311,444
242— 3: 2,311,339
36: 2,311,175
55: 2,310,947
72: 2,311,383
244— 18: 2,311,247
59: Re.22,272
78: 2,310,954
106: 2,311,161
248— 7: 2,311,303
42: 2,311,495
117: 2,311,332
120: 2,311,280
206: 2,311,525
358: 2,311,396
249— 58: 2,310,988
250— 6: 2,311,435
14: 2,311,380
15: 2,311,467
17: 2,311,491
20: 2,311,522
27.5: 2,310,936
2,311,520
33: 2,311,364

250— 33: 2,311,472
2,311,535
36: 2,311,163
40: 2,311,168
41.5: 2,311,362
57: 2,311,581
71: 2,311,151
251— 27: 2,311,009
43: 2,310,963
143: 2,311,292
160: 2,311,506
252— 39: 2,310,993
2,311,305
47: 2,311,505
48: 2,311,500
54: 2,310,971
134: 2,310,931
251: 2,311,232
253— 143: 2,310,994
254— 86: 2,310,942
131: 2,311,063
256— 13.1: 2,311,219
2,311,220
2,311,221
257— 172: 2,311,226
240: 2,311,190
262: 2,310,970
259— 78: 2,311,319
129: 2,311,586
260— 14: 2,311,609
17: 2,310,961
20: 2,310,935
28: 2,311,284
32: 2,311,249
33: 2,311,341
2,311,587
36: 2,311,259
41: 2,311,233
73: 2,310,943

260— 78: 2,311,327
2,311,534
2,311,607
2,311,615
84: 2,311,548
94: 2,311,567
97.5: 2,311,386
98: 2,311,508
106: 2,311,200
2,311,509
2,311,510
2,311,511
205: 2,311,033
290: 2,311,134
378: 2,311,065
396: 2,311,032
397.2: 2,111,050
397.4: 2,311,102
397.5: 2,311,067
407: 2,310,997
415: 2,310,986
429: 2,311,310
434: 2,311,267
453: 2,311,046
464: 2,311,183
468: 2,311,260
2,311,261
477: 2,310,973
500: 2,311,306
506: 2,311,062
551: 2,311,281
553: 2,311,296
2,311,342
562: 2,311,054
564: 2,311,295
619: 2,311,093
2,311,282
622: 2,311,283
633: 2,311,023
674: 2,311,189

260— 677: Re.22,268
725: 2,310,926
731: 2,310,972
732: 2,311,301
740: 2,311,136
754: 2,311,526
761: 2,311,112
774: 2,311,605
261— 15: 2,311,583
30: 2,311,155
69: 2,310,984
265— 25: 2,311,331
44: 2,311,312
67: 2,311,437
68: 2,311,264
266— 2: 2,310,991
3: 2,311,616
5: 2,311,344
7: 2,311,014
23: 2,311,223
271— 2.3: 2,311,521
273— 1: 2,311,106
31: 2,311,243
73: 2,311,172
76: 2,311,546
126: 2,311,029
147: 2,311,453
274— 10: 2,311,596
47: 2,311,481
277— 20: 2,311,464
2,311,465
279— 53: 2,311,258
280— 6: 2,310,930
46: 2,311,442
50: 2,311,422
96.1: 2,311,125
106.5: 2,311,419
2,311,420
2,311,603
261: 2,311,424

281— 34: 2,311,153
282— 29: 2,311,052
284— 19: 2,311,239
285— 54: 2,310,927
86: 2,310,944
169: 2,311,097
286— 11: 2,311,494
290— 4: 2,311,476
7: 2,311,285
292— 128: 2,311,298
165: 2,311,094
219: 2,311,132
325: 2,311,152
343: 2,311,595
294— 64: 2,310,995
65: 2,310,996
296— 28: 2,311,129
97: 2,311,402
299— 59: 2,311,018
61: 2,311,266
88: 2,311,496
301— 36: 2,310,921
44: 2,311,475
304— 10: 2,311,210
308— 1: 2,311,382
74: 2,311,434
84: 2,311,390
187.1: 2,311,287
238: 2,310,923
309— 4: 2,310,917
12: 2,311,584
44: 2,311,240
2,311,557
2,311,558
45: 2,311,559
311— 103: 2,311,149
312— 36: 2,311,449
84: 2,310,933
112: 2,311,446
314— 71: 2,311,462

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,310,928: 211—105.2
2,310,950: 68— 23
2,310,959: 30— 186
2,310,971: 252— 54
2,310,972: 260— 731
2,210,991: 266— 2
2,310,997: 260— 407
2,310,998: 92— 55
2,311,027: 8— 124
2,311,047: 101—149.2
2,311,049: 135— 47

2,311,062: 260— 506
2,311,065: 260— 378
2,311,084: 198— 65
2,311,107: 30— 143
2,311,111: 5— 131
2,311,137: 229— 19
2,311,140: 48— 76
2,311,144: 196— 2
2,311,145: 155— 180
2,311,156: 18— 56
2,311,177: 137— 69

2,311,205: 105— 211
2,311,207: 119— 18
2,311,246: 2— 74
2,311,248: 229— 55
2,311,257: 204— 12
2,311,275: 38— 12
2,311,288: 106— 91
2,311,289: 106— 94
2,311,291: 229— 5.8
2,311,300: 160— 95
2,311,301: 260— 732

2,311,308: 220— 64
2,311,326: 45— 138
2,311,362: 250— 41.5
2,311,366: 126— 137
2,311,367: 15—130.1
2,311,377: 210— 187
2,311,399: 179— 1
2,311,430: 73— 51
2,311,468: 60— 52
2,311,470: 160— 229
2,311,478: 200— 83

2,311,479: 25— 154
2,311,482: 155— 62
2,311,501: 105— 276
2,311,504: 74— 110
2,311,512: 62— 2
2,311,521: 271— 2.3
2,311,524: 18— 47.5
2,311,526: 260— 754
2,311,540: 62— 141
2,311,542: 5— 62
2,311,567: 260— 94

2,311,572: 154— 50
2,311,573: 154— 50
2,311,575: 28— 2
2,311,577: 198— 23
2,311,583: 261— 15
2,311,589: 117— 11

U. S. GOVERNMENT PRINTING OFFICE: 1943